



Anniversary trees celebrate University/OMAF relationship

A grove of black walnut trees at The Arboretum was recently dedicated in honor of the 100th anniversary of the Ontario Ministry of Agriculture and Food (OMAF).

Speaking at a dedication luncheon that also honored the ministry's centennial steering committee, Jack Riddell, minister of agriculture and food, noted that the centennial black walnut grove is "a living monument commemorating our centennial, and the strength and endurance of Ontario's agri-food industry."

Black walnut seedlings were also planted at The Arboretum nursery, to be incorporated into the landscaping of the ministry's future head office building in Guelph, scheduled for completion in the early 1990s.

President Brian Segal and Riddell agreed that the twin centennial black walnut groves will symbolize the close working relationship between OMAF and the University. Above, Riddell, left, presents Segal with a \$1,000 cheque toward the "care and feeding of this future monument." ○

You're invited!

Everyone is invited to attend the opening ceremony of U of G's 25th anniversary Jan. 12 at noon in the courtyard of the University Centre.

The ceremony will include a lighting of candles on a huge anniversary cake that is to be "built" next Wednesday by Food Services. President Brian Segal will cut the cake, and there will be greetings from federal, provincial and municipal officials and past presidents of the University.

After the ceremony, a light lunch will be served in Peter Clark Hall of the University Centre, where a display of historical photographs of the University will be set up. See page 1 for a calendar of anniversary events. ○

Time to get tough

Government funding angers universities

U of G has reacted angrily to the Ontario government's recent announcement of a 7.5-per-cent increase in operating grants to universities and is strongly supporting an unprecedented Council of Ontario Universities (COU) resolution that condemns inadequate government funding.

Passed by COU's executive committee Dec. 16, the resolution says: "In frustration and distress after a decade of chronic underfunding, the Council of Ontario Universities condemns the government of Ontario:

- for cutting university base budgets by providing an increase of less than four per cent when inflation is predicted to run at more than five per cent, and thereby disregarding the advice of the government's own advisory agency, the Ontario Council on University Affairs, to increase operating grants by 10.1 per cent;
- for concealing this fact from the public in the transfer payments announcements;
- for failing to honor its obligation to support adequately the new enrolment admitted at the government's request in 1987 and 1988;
- for failing to provide assurance of sufficient support for the increased numbers of students who will apply in 1989; and
- for preventing universities from properly serving the needs of Ontario by providing quality instruction to growing numbers of students, research in an environment of global economic competition and community service as it affects the quality of life in Ontario.

Lyn McLeod, minister of colleges and universities, announced Dec. 13 that provincial operating grants to Ontario universities will increase by 7.5 per cent or \$116.2 million in 1989/90, bringing total government funding to \$1.67 billion. The new funding includes a four-per-cent increase in base operating support plus \$51.6 million to honor the government's commitments to provide funding recognition for enrolment growth, \$3.8 million for the ministry's French-language and bilingual programs and \$4.3 million for its faculty renewal program.

President Brian Segal told Senate Dec. 20 that the 7.5-per-cent increase is misleading. By the time supplementary funding to cover the costs of increased enrolment is set aside, he said, the increase to the universities' base budgets is about 3.95 per cent at a time when the rate of inflation is more than five per cent.

Segal charged that the government is taking a dangerous course and said it's time for universities "to get tough and fight back publicly." In the past, universities have been positive and nice with the government, "but it hasn't got us anywhere," he said. "It's time to change relationships."

The government is making all kinds of demands on the universities, he said. The government has urged universities to admit additional students and has required them to implement various programs. "But the government has made no guarantees that they will pay for these," he said.

International students

U of G has framed a policy of its intentions towards international students. Senate endorsed the Senate Committee on Educational Development's (SCED) *Report on the Living and Learning Needs of International Students*.

In 1988, international students represented 3.5 per cent of the University's undergraduate and graduate enrolment — a figure that has been steadily declining since a high of 10.9 per cent in 1982.

The sharp decline in international student levels in Canada — especially at the undergraduate level — is directly traceable to the increasingly widespread application of higher fees, says the SCED report.

Malaysian students make up 31 per cent of U of G's graduate and undergraduate international

student population; students from Hong Kong who hold U.K. passports make up 25 per cent.

A policy statement is to appear in the undergraduate and graduate calendars saying that the University encourages international students to apply to U of G. The institution is striving to incorporate an international perspective into its academic programs, and it supports and encourages international students to contribute to this perspective.

The registrar and the dean of graduate studies are to enhance current liaison programs for international students and also find ways to increase financial support for them.

The director of the Counselling and Student Resource Centre (CSRC) is to ensure that they receive English instruction, academic orientation, more interaction with Canadian students and work-study programs. CSRC is also to determine how much support they will need for religious needs and also develop a volunteer program to help newly arrived students adjust to new surroundings.

SCED is to develop ways to involve them in curricular and academic issues in which a global perspective is sought. The associate vice-president, student affairs, is to consider ways for the residence environment to focus on global issues and also encourage the allocation of space for the children of these students in the proposed campus day-care centre.

The director of public relations and information is to promote the benefits of having international students in the Guelph community.

The vice-president, academic, is responsible for implementation and for identifying funding for these initiatives. The president is to continue with other universities to encourage the provincial government to revoke differential fee policies.

Other business

In other business, Senate approved a report from the Striking Committee on changes to membership on the Committee on Bylaws and Membership, Board of Undergraduate Studies (BUGS), Board of Graduate Studies (BGS) and the Research Board for 1988/89.

From BUGS, Senate received for information a progress report on the implementation of the learning objectives. It also approved the offering of one- and two-semester-long (double-weighted) courses of study; changes to the admission requirements of the B.Sc.(Agr.) and the B.A.Sc. programs; a new course — 40-435, "Structure and Evolution of Macro Molecules"; and changes to the policy on the academic misconduct of students. It also received for information the general studies program committee composition.

In BGS business, Senate approved an M.Sc./PhD co-op program in physics; changes in the *Graduate Calendar* description of the PhD program in the Department of Geography; a change in the program description and course listing in the Department of Economics; and a change in description for the School of Engineering program. It also approved a new horticultural science field in the master of agriculture program.

Senate approved a requirement that all MA and M.Sc. non-thesis options include a research component consisting of at least a research seminar or research project course in the prescribed studies of each student. Senate referred to the Committee on Graduation and Ceremonials a proposed change in wording in graduation lists that would see the "degree by courses" designation replaced with "non-thesis option."

Senate ratified the revised Ontario Council on Graduate Studies bylaws for periodic appraisals, and also received for information the following additions to graduate and associated graduate faculty:

Program of celebrations



Jan. 12

Twenty-fifth anniversary launch — opening ceremonies and cake cutting, noon, University Centre courtyard; lunch, 1 p.m., Peter Clark Hall.

Opening reception for "Contemporary Inuit Art," an exhibition from the Macdonald Stewart Art Centre, at the National Gallery in Ottawa, 5 to 8 p.m.; exhibition continues to March 26.

Jan. 20

The University Centre pays tribute to the anniversary with a performance of the National Ballet of Canada, 8 p.m., Ross Hall.

Jan. 19 to Feb. 26

Exhibition of paintings, sculptures and mixed media works by fine art graduates of the past 25 years, Macdonald Stewart Art Centre.

Feb. 1

Achievers lecture series — astronaut Roberta Bondar, 5 p.m., Room 103, University Centre.

Feb. 2

College of Physical Science guest lecturer Dr. Benoit Mandelbrot, 3 p.m., War Memorial Hall.

Feb. 14

Science Noon lecture series — "The Greenhouse Effect! Is it Really Happening?" Prof. Terry Gillespie, Land Resource Science, noon, War Memorial Hall.

Feb. 15

Achievers — Lawyer Peter Anderson, 5 p.m., UC 103.

Feb. 21

Science Noon — "Marine Mammals and Man: Conflict and Competition," Prof. Keith Ronald, director of The Arboretum, noon, War Memorial Hall.

Feb. 22

Achievers — Zoo manager Michael Hackenberger, 5 p.m., UC 103.

Feb. 25

The Department of Music will honor President Brian Segal and the 25th anniversary with a concert at 8 p.m., Macdonald Stewart Art Centre.

Feb. 28

Science Noon — "How Science Has Changed Agriculture," Clayton Switzer, deputy minister of agriculture & food, noon, War Memorial Hall.

March 7

Science Noon — "The Science of Reading a Wine Label," Prof. Ron Sudben, Microbiology, noon, War Memorial Hall.

March 8

Achievers — Restaurateur Phillip Chan, 5 p.m., UC 103.

March 10 to 12

College Royal Open House.

March 14

Science Noon — "Forensic Science Closing in on Crime," Dr. Harold Peel, Central Forensic Laboratory Services, RCMP, noon, War Memorial Hall.

March 21

Science Noon — "From Ecology to Toxic Wastes: a Personal Journey," Dr. Donald Chant, chair and president of the Ontario Waste Management Corporation, noon, War Memorial Hall.

June 3 to Aug. 27

Exhibition of art acquisitions funded by alumni, Macdonald Stewart Art Centre.

June 8

Celebration of Teaching seminars by award-winning Guelph faculty, 8:30 a.m. to 5 p.m., Room 107, MacKinnon building.

Awards lunch of the University of Guelph Faculty Association, noon; awards dinner of the Ontario Confederation of University Faculty Associations, 6:30 p.m. (For ticket information, contact the UGFA.)

June 9

OCUFA meeting, 9:30 a.m., UC 424. (Contact UGFA.)

June 16

Alumni Weekend and OAC Open House, continuing to June 18.

The Guelph Spring Festival commemorates the anniversary with a special performance of The Gents, a six-voice a cappella ensemble, 8:30 p.m., War Memorial Hall.

June 18

Official opening of the Donald Forster Sculpture Park, Macdonald Stewart Art Centre, 2 p.m.

June 24

The Great Picnic at The Arboretum, 2 to 8 p.m. O

Continued on page 3.

Clip and keep

Letters to the editor

Milk research — for all it's worth

I was surprised by what was revealed about dairy research at this University in the article "Milk Dumped in Response to OMMB Ruling in *At Guelph* Dec. 14.

It appears that the University is carrying on expensive research (\$400,000 in Ministry of Colleges and Universities funds) to improve with hormones the milk yield of cows by "15 to 20 per cent." Although the "cows respond by consuming more feed," there is an "overall improvement in the efficiency of conversion of feed to milk." By 10 per cent, perhaps?

Now, if we are running short of milk, I suppose that a modest increase in efficiency is all to the good and an advantage to dairy farmers. But the very same OMMB has as one of its functions the regulation of milk production in Ontario, giving milk-production quotas to some farmers and none to others. Thus, shortage of milk is not the reason for this research because milk production is heavily curtailed by regulation. In addition, success in this research under present marketing conditions might reduce further the number of farmers allowed to produce milk. Neither the dairy farmers nor the public gains.

The question is whether or not it is useful to carry on research to improve yields for commodities whose production is artificially kept down by one means or another.

Prof. John Simpson,
Physics.

Zavitz Hall

The Nov. 30 issue of *At Guelph* dealt at length with the preservation of Zavitz Hall on its 75th birthday. The MacNaughton building (formerly the Physical Sciences building) casts its shadow and frowns on this fine, old building that it intended to displace. Zavitz Hall has had its revenge by assigning the new building as a roost for its flock of pigeons.

Charlie Zavitz was an important person

on the OAC campus as superintendent of experiments and head of field husbandry. He lived in the stone cottage, built in 1882 for the college farmer, that is now Rathby House — named after its last resident.

The present Winegard Walk was originally a well-worn pathway from College Avenue to a row of pine trees that acted as a screen for the Zavitz house; the remnants of this screen still exist. The walkway veered west around the screen to near the front door of the University Centre, where it turned south to meet the old dairy lane.

The field husbandry building, now Zavitz Hall, was built in 1913 and opened in January 1914. It was sited to be in line with the old horticulture building on the McLaughlin building site and this old pathway.

Charlie Zavitz had much to say about the design and location of Zavitz Hall. One of his decisions involved the location of the south door, which was the entry to his office. It was surveyed to be in a direct line with the front door of his stone cottage.

Prof. Ross Irwin (retired),
School of Engineering.

Christmas thanks

The fourth annual University Christmas appeal raised more than four boxes of items and several cash donations. These were turned over to the Salvation Army for distribution in its city-wide Christmas appeal, "It's Always Caring Time."

The response was encouraging to the sponsors — Administrative Services, the Central Student Association and *The Ontarian*. Next year, we hope to do even better.

On behalf of the sponsors, thanks to everyone who donated to the appeal. Special thanks to Surplus Sales, who donated the box, the University Centre for the space and standards, and to all the "elves" that provided advertising, decorating and other help.

Wayne Michalski,
Co-ordinator, Christmas appeal,
Administrative Services.

Video system on display

The U of G Library will offer a demonstration of the Advanced Interactive Video (AIV) system developed by the British Broadcasting System. It will be held Jan. 10 at 2 p.m. in the Orientation Room on the first floor of the library.

The demonstration will consist of the "Domesday Project," the "Ecodisc" and "Volcanoes." Each of these uses 12-inch ROM-videodisc technology to store and retrieve text and audio-visual material in a flexible, interactive manner.

The "Domesday Project" incorporates 55,000 still photos, 24,000 topographical and street maps, 250,000 place names, an hour of video news footage, 9,700 data sets and 150,000 screens of text, all on two videodiscs. "Volcanoes" offers detailed graphic, visual, sound and textual information on all aspects of volcanicity. "Ecodisc" simulates a problem-solving situation in the management of a real nature reserve, using photographs, film sequences, graphic displays and data.

The AIV system allows users to interact easily with vast amounts of information. The system will be available for personal use on campus until the end of January. For more information, call the library information desk at Ext. 3617. O

Awards

Research editor Owen Roberts, Office of Research, has been awarded the Alice Switzer/United Farmers of Alberta bronze award for press releases by the 400-member Canadian Farm Writers' Federation. His release, entitled "A Test-Tube Baby Calf Arrives," featured the embryo technology research of then OVC doctoral candidate Robert Stubbings. Roberts' release and photograph of Stubbings with calf "I.V." was picked up by the Canadian Press wire service and widely used by media across the country. The story appeared in *At Guelph* May 4.

The Guelph United Way has presented a Volunteer Award of Excellence to Sandra Webster, Public Relations and Information, for service to the University's United Way campaign and for chairing the committee that organized the first-ever campus UW prize-giving program.

CIS gets major award for computer-aided design

by Owen Roberts,
Office of Research

A \$300,000 grant from the Natural Sciences and Engineering Research Council (NSERC) will benefit a Department of Computing and Information Science (CIS) research project to develop computer-aided design tools.

These tools are essential for the production of microelectronic chips used in computers and popular consumer goods such as microwave ovens, calculators, watches, audio and video players and automobile cruise controls.

The success of an integrated circuit design optimization software package developed by CIS led to the grant. It is the first received by the College of Physical Science under NSERC's new microelectronics fund and the largest strategic grant awarded to the University this year.

The three-year project will involve CIS professors Dilip Banerji, Jim Linders, Tom Wilson and Jay Majithia.

GREGMAP (Guelph Register To Memory Allocation Package), a computer-aided design software package developed in CIS last year, is being tested by AT&T Bell Labs in Murray Hill, N.J. Several Canadian electronics firms are also experimenting with the package for applications in integrated circuit optimization.

"The success of the GREGMAP package gained the confidence of NSERC," says Majithia. "It proved we were on the right track — it was really the key to getting this award."

In creating GREGMAP, Banerji, Linders, visiting professor Arun Majumdar of the Indian Institute of Technology in Kharapur and graduate student Shailesh Sutarwala discovered how to cut the number of interconnections needed in certain sections of chips by up to 50 per cent. This, in turn, helps reduce the size of the chip itself and simplifies its layout.

"In awarding the strategic grant, NSERC is encouraging us to concentrate on design optimization research," says Majithia. Guelph research will further refine the techniques used for GREGMAP to achieve still more optimization and optimum placement of components on a chip, to reduce both the number and lengths of integrated circuit interconnections.

GREGMAP's secret involves maximizing the sharing of what could be thousands of interconnections that link components on a microchip — examining these interconnections, eliminating some of them and making better

use of others.

Computers are needed for this because the human mind loses its ability to comprehend the circuitry details of a microchip containing more than 15,000 transistors. Even typical one-centimetre-square processor chips found in commonplace personal computers often have 100,000-plus transistors. Advanced circuitry is nearing the one million-transistor plateau, creating the need for greater research into computer-aided design and artificial intelligence, says Majithia.

Such microelectronic chip design requires specialized software programs and tools like GREGMAP, which display the circuits' intricacies and allow engineers to work on them. O

Mercury to run University column

The Daily Mercury is expanding its coverage of the University. The paper will devote a half-page every Wednesday, starting Jan. 11, to happenings at U of G.

The first column will include stories on the kickoff of the University's 25th anniversary celebrations and the publication of *Achievement and Challenge* by Judith Colbert.

Regular coverage will include a research column by *Mercury* reporter Margaret Boyd and a calendar of events. Also planned are articles on the University's history, profiles of departments and individuals, and columns on student life and horticulture.

"We're trying to make the University more accessible to the public," says Boyd. O

Faculty activities

Prof. Walter Kehm, director of the School of Landscape Architecture, was involved in coordinating a global conference, "Tourism — A Vital Force for Peace," which attracted 800 delegates from 64 countries to Vancouver in October. Delegates worked on a new code of ethics to govern the tourism industry as it attempts to be more responsive to the global environment and native peoples. O

Faculty lead lifelong learning programs

University faculty will be involved in teaching and co-ordinating two new courses offered this winter by Third Age Learning (TAL) — Guelph, a volunteer, non-profit group devoted to active learning after age 55.

Prof. Gil Stelter, History, will present a lecture series on "Victorian Architecture and Guelph's Character." Prof. Ernie McFarland, Physics, and Prof. Sandy Middleton, Zoology, are co-ordinating a science series, "Science in Our Times," along with TAL program committee members Rick Richards, retired dean of OAC, and Earl MacNaughton, retired dean of CPS.

Both courses begin Jan. 11 in War Memorial Hall. The lectures on Victorian architecture are at 10 a.m., the science lectures at 1:30 p.m. Free bus service will be provided from the Stone Road Mall parking lot. There are 10 lectures in each series and no examinations, says Helen Brimmell, TAL-Guelph publicity co-ordinator. The cost is \$20 for each series.

Stelter, an expert on Victorian architecture, will show slides and present illustrations of streets in Guelph and the surrounding communities. From the first town plan of Guelph, he will examine community focal points, commercial and industrial architecture, homes, schools, hospitals and the creation of OAC, and will discuss the local application of Gothic, classical and Romantic traditions.

Two final sessions will be devoted to two artists' concepts of Guelph — Evan Macdonald and Gordon Couling, early architecture historian and first chair of the Department of Fine Art.

A panel discussion entitled "What is

Science?" will open the science series. Prof. Susan McIver, Environmental Biology, will chair the session, with Profs. Bob Balahura, Chemistry and Biochemistry, Barry Millman, Physics, and Rosalind Stevenson, Microbiology, as panelists. Succeeding lectures are: "Energy: Yesterday, Today and Tomorrow," with CPS dean Iain Campbell; "Darwin for Beginners," Prof. Ron Brooks, Zoology; "Atmospheric Pollution and its Consequences," Prof. Nigel Bunce, Chemistry and Biochemistry; "Human Evolution, Crime and Mischief," Prof. Susan Pfeiffer, Human Biology; "The Ecological Basis of Sustainable Agriculture in Canada," Prof. Vernon Thomas, Zoology; "Genetic Engineering: Ethical Implications of a New and Growing Technology," Prof. John Phillips, Molecular Biology and Genetics; "Climatic Change," Prof. Terry Gillespie, Land Resource Science; "How Computers Affect the Way We Work," Prof. Tom Carey, Computing and Information Science; and "Is the Sun On or Off?," Prof. John Simpson, Physics.

TAL-Guelph has just completed a fall program consisting of "Canadian Literature," given by faculty in the Department of English Language and Literature, and "Peace and War in the Nuclear Age," given by Profs. Gunnar Bochner, History, and Henry Wiseman, Political Studies. Some 247 people enrolled in these programs, says Brimmell.

TAL-Guelph was organized with the help of the School of Continuing Education and its director, Prof. Mark Waldron.

For more information or to enrol, call 824-7679, 822-8622 or 824-8791. O

At Guelph

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Coming events

WEDNESDAY, Jan. 4

Schedule of Dates - Classes begin.
Winter Orientation - Library Orientation, see schedule at library information desk; CSA Open House, all day, UC 273; Academic Counsellor's Open Houses, all day - Biological Science, McNally House, Ext. 2704; Physical Science, MacNaughton 440, Ext. 6435; OAC, Johnston Hall 162, Ext. 2116; FACS, FACS 139, Ext. 2409.
Concert - The Shuffle Demons, noon, University Centre courtyard.

SUNDAY, Jan. 8

Worship - Morning Worship Service, University Bible Studies, 9 a.m., UC 441; Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry, 8 p.m., UC 533.

MONDAY, Jan. 9

Worship - Liturgy of the Word, 5:10 p.m., UC 533.
Human Biology Seminar - "The Effect of Beta-Adrenergic Blockade on Blood Flow and VO2 Kinetics During Exercise in Humans," John Kowalchuk, 12:10 p.m., Human Biology 108.

TUESDAY, Jan. 10

Course - English as a Second Language, introductory sessions, 9 a.m. and 7 p.m., UC 335.
Worship - Liturgy of the Word, 12:10 p.m., UC 533; Inquiry into Catholicism, 4 p.m., UC 334; Faithfully Curious, 5 p.m., UC 335.
Demonstration - Advanced Interactive Video, 2 p.m., library orientation room.

WEDNESDAY, Jan. 11

Worship - Feminist and Christian, 10:10 a.m., UC 533; Ecumenical Holy Communion, 12:10 p.m., UC 533; Immanuel Christian Fellowship, 5 to 7 p.m., 287 Water St.; Community Fellowship, 5 to 8 p.m., OTAS lounge, UC Level 5.
Computing Seminar - "Hard Disk Organization," noon, Computing Services 204.
OVC Seminar - "Has Continuing Education Been Effective in Veterinary Medicine?" Bill Stubbs, 12:10 p.m., Clinical Studies 508.

THURSDAY, Jan. 12

Worship - Relationships: The Central Concern of Jesus, 4 p.m., UC 335; Exploration in Meditative Prayer, 5:10 p.m., UC 533; Social Evening, 6 to 9 p.m., UC 334/335.

FRIDAY, Jan. 13

Worship - Liturgy of the Word, 8:10 a.m., UC 533.
Men's Volleyball - Vs Toronto, 7:47 p.m., Athletics Centre, \$2.

SUNDAY, Jan. 15

Worship - Morning Worship Service, University Bible Studies, 9 a.m., UC 441; Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry, 8 p.m., UC 533.

MONDAY, Jan. 16

Worship - Liturgy of the Word, 5:10 p.m., UC 533.

TUESDAY, Jan. 17

Worship - Liturgy of the Word, 12:10 p.m., UC 533; Inquiry into Catholicism, 4 p.m., UC 334; Faithfully Curious, 5 p.m., UC 335.
Women's Volleyball - Vs Brock, 8 p.m., Athletics Centre.

WEDNESDAY, Jan. 18

Worship - Feminist and Christian, 10:10 a.m., UC 533; Ecumenical Holy Communion, 12:10 p.m., UC 533; Immanuel Christian Fellowship, 5 to 7 p.m., 287 Water St.; Community Fellowship, 5 to 8 p.m., OTAS lounge, UC Level 5.
Computing Seminar - "Presentation Graphics," noon, Computing Services 204.

Senate summary

Continued from page 1.

- Graduate faculty — Susan Evers, Family Studies;
- Provisional graduate faculty — Catherine Kerrigan and Marshall Matson, English Language and Literature; Harold Pook, Clinical Studies; John Walsh, School of Hotel and Food Administration and Consumer Studies; and Ann Wilson, Drama/English Language and Literature;
- Reclassification from provisional to full graduate faculty — Wayne Howard, Agricultural Economics and Business;
- Temporary graduate faculty — J.D. Procnier, research associate, Crop Science; and Margaret Turner, Canada Research Fellow, English Language and Literature;
- Associated graduate faculty with term — C.S. Baldwin, Ridgetown College of Agricultural Technology/Environmental Biology; P.S. Carman, Ontario Ministry of Agriculture and Food/Veterinary Immunology and Microbiology; W.D. Hogg, Atmospheric Environment Service, Downsview/Land Resource Science; R. Stubbings, Semex Canada, Guelph/Biomedical Sciences; E.M. Upton, retired/Consumer Studies; G. Whitfield, Agriculture Canada, Harrow/Environmental Biology; and R.M. Wigle, Wilfrid Laurier University/Agricultural Economics and Business;
- Associated graduate faculty without term — D.G. Fraser, Agriculture Canada, Ottawa/Population Medicine, and D. Hoffman, retired/Agricultural Economics and Business. From the Committee on Awards, Senate approved these new awards:
 - Kevin Lang Memorial Scholarship — an annual undergraduate award of \$700, tenable with other Senate awards, to a student in an animal and poultry science major who has completed semester six or who has contributed to extracurricular activities related to animal agriculture. Application is not necessary. The selection committee is the OAC awards committee on the recommendation of the Department of Animal and Poultry Science. Donors are the friends and associates of Kevin Lang, OAC '79;
 - Oliver White Memorial Fellowship in Agriculture — an annual graduate award of \$1,200, tenable with other Senate awards, to an entering master's in agriculture student in agribusiness management with an interest in marketing or a student in food science who has an interest in dairy food processing. Academic standing, professional career interest and the financial resources of the applicants will be considered. Application is by letter to the dean of OAC by June 1. The OAC awards committee is the selection committee. The donor is the OAC Alumni Foundation;
 - Select Biologics Marketing Award — two annual awards of \$250, tenable with other Senate awards, to a student with the highest grade in the sales and sales management courses in the diploma in agriculture program and in the B.Sc.(Agr.) degree program. Application is not necessary, and the selection will be made by the OAC awards committee on the recommendation of the Department of Agricultural Economics and Business. The donor is Select Biologics Canada Inc.;
 - Canadian Agricultural Marketing Association Award — an annual award of \$250, tenable with other Senate awards, to a graduating student in the associate diploma in agriculture

program with an interest and aptitude in the area of marketing and a minimum "B" standing in marketing courses 02-022 or 02-025, and who has participated in extra-curricular activities. Application is to the assistant registrar, awards, by April 1, and the selection will be made by the OAC awards committee on recommendation of the director of the diploma program. The donor is the Canadian Agricultural Marketing Association;

- The Mary Singer Research Grant — an annual graduate award of \$500, tenable with other Senate awards, to a student in the Department of Family Studies who is conducting thesis research in gerontology. The award is to cover research expenses up to \$500. Application must be made by April 1. The selection will be made by the FACS graduate awards committee. The donor is the Mary Singer bequest;
- Honors Applied Biochemistry Scholarship — an annual undergraduate award of \$500, tenable with other Senate awards, to a student enrolled in the B.Sc. honors applied biochemistry program at the fifth- or sixth-semester level. The recipient must have a cumulative "A" average in courses taken in semesters one to four, including at least six courses offered by the department. Application is not necessary, and the selection will be made by the department awards committee. The donor is the faculty of the Department of Chemistry and Biochemistry;
- Honors Applied Chemistry Scholarship — an annual undergraduate award of \$500, tenable with other Senate awards, to a student enrolled in the B.Sc. honors applied chemistry program at the fifth- or sixth-semester level. The recipient must have a cumulative "A" average in courses taken in semesters one to four, including at least six courses offered by the department. Application is not necessary, and the selection will be made by the department awards committee. The donor is the faculty of the Department of Chemistry and Biochemistry;
- Honors Chemistry Scholarship — an annual undergraduate award of \$500, tenable with other Senate awards, to a student enrolled in the B.Sc. honors chemistry program at the fifth- or sixth-semester level. The recipient must have a cumulative "A" average in courses taken in semesters one to four including at least six courses offered by the department. Application is not necessary, and the selection will be made by the department awards committee. The donor is the faculty of the Department of Chemistry and Biochemistry, and;
- The Professor Frederick Hung Memorial Award — an annual undergraduate award of \$700, tenable with other Senate awards, to a student entering the BA degree program directly from high school. The award will be given to a student who has achieved the highest mark in Grade 13 geography or its equivalent and an "A" average overall. The award is not limited to students from Ontario. Application is not necessary, and the selection will be made by the assistant registrar, awards. Donors are the family and friends of Frederick Hung.

From the Community on University Planning, Senate approved procedures for undergraduate and graduate interdisciplinary programs.

Finally, Senate received for information a report on the highlights of the Dec. 9 meeting of the Council of Ontario Universities. O

Briefly

National Ballet performs

In celebration of U of G's 25th anniversary, the University Centre presents the National Ballet of Canada Jan. 20 at 8 p.m. at Ross Hall. The troupe will perform "Concerto Barocco," "Trappance" and "Etc.!" Tickets range from \$11 to \$17 and are available at the UC box office, Ext. 3940.

OCUFA seeks nominations

The Ontario Confederation of University Faculty Associations seeks nominations for its 1988 teaching awards. Each year, OCUFA recognizes about 10 outstanding Ontario university teachers with awards. Nominations are invited from individuals, informal groups of faculty or students and formal organizations. Guidelines to assist in organizing a nomination are available from the U of G Faculty Association. Deadline for receipt of nominations is March 31.

History fellowship offered

Each year, the Ontario Ministry of Colleges and Universities offers the Sir John A. Macdonald graduate fellowship in Canadian history, valued at \$8,500 a year for three years. The fellowship is tenable only at an Ontario university and is usually awarded to a full-time PhD student majoring in Canadian history, but may also be awarded to a master's student. Application forms are available from the Office of Graduate Studies. Deadline for applications for the 1989/90 fellowship is Feb. 13.

Call for papers

The Research at Small Universities Conference, to be held April 27 to 29 at Lakehead University, invites papers that present scholarly work on successful ways of enhancing research at small universities. Send an abstract of 300 words or less by Feb. 1 to Trish McGowan, Research Officer, Graduate Studies and Research, Lakehead University, Thunder Bay P7B 5E1.

Theatre in the Trees

The Arboretum's dinner theatre, Theatre in the Trees, is offering the Neil Simon comedy *I Ought to Be in Pictures*, directed by John Snowdon and starring Pat Sproat, Victoria Campbell and Wayne Moore. Scheduled performances are Jan 21 and 28, Feb. 4, 11, 18 and 25, March 4, 11 and 18, April 1, 15, 22 and 29, and May 6. Dinner is at 6:30 p.m.; the play begins at 8 p.m. Cost is \$29.50. Tickets are available at the University Centre box office, Ext. 3940. For more information, call Ext. 2113.

Hafa Restaurant hours

The Hafa Restaurant opens its doors for the winter semester Jan. 17. Dining room service and buffet service will be available Tuesday through Friday from 11:45 a.m. to 1 p.m. For dining room reservations, call Ext. 8116.

Surplus sales

The Surplus Sales Department in Blackwood Hall has the following items available for

departmental purchase: SD(NU)188 — ribbon for Qume printer Multi IV and Prestige Elite printwheel; SD(NU)624 — inverted scope (Wild) model #M40-58890 with oculars and objectives, operating lamp V1860-200; SD#632 — IBM Quietwriter II; SD#691 — chesterfields and chairs; SD#692 — dividers, various sizes and colors. For more information and viewing, call Ext. 8139.

Athletic registration

The Athletics Department is trying out a new arrangement for registering for children's aquatics and some fitness classes. Registration for the aquatics can be done at the cashier's wicket in the Athletics Centre Jan. 4 to 10 from 9:30 a.m. to 1 p.m. and from 2 to 3 p.m. Registration for fitness classes that take place before 5 p.m. can be done Jan. 9 to 11 between 9:45 a.m. and 2:15 p.m. Late registration is also possible Jan. 11 after 7 p.m. and at other advertised late registration times.

Improve your study skills

A study skills workshop series focusing on concentration, effective listening, notetaking, time management, exam preparation and exam writing begins Jan. 10. An all-day workshop will be held Jan. 14. For more information and to register, contact the Connection Desk, Level 3, University Centre. Writing assistance is also available through the Learning Resource Centre on Level 3 of the UC Tuesdays and Fridays from 9 a.m. to 4 p.m.

A designing woman

U of G drama graduate Sue Le Page, one of Canada's most well-known stage designers, will be on campus Jan. 22 to give a day-long workshop for designers, directors, actors and others interested in theatre. Admission is limited, with preference given to U of G drama students, but members of the general public may be accommodated. To apply to attend the workshop, leave your name and telephone number at Ext. 3147.

Learn to relax

The Stress Management and High Performance Clinic in the School of Human Biology will offer noon-hour and evening group relaxation classes this winter, as well as relaxation classes for students in residence, biofeedback-assisted relaxation classes and booster classes. Private training sessions are also available by appointment. Registration for classes begins Jan. 19. For more information or to reserve a place, call Ext. 2662.

Awards available

The Department of National Defence offers graduate scholarships, postdoctoral fellowships, sabbatical and research awards and an internship program. Deadline for application for the 1989/90 academic year is Feb. 1. For more information and application forms, contact the Association of Universities and Colleges of Canada, Awards Division, 151 Slater St., Ottawa K1P 5N1, 613-563-1236.

Obituaries

Gordon Townsend

Professor emeritus Gordon Townsend, one of the world's foremost specialists in apiculture, died in Guelph Dec. 14 at the age of 73.

A 1938 graduate of OAC, Prof. Townsend retired from the Department of Environmental Biology in 1980 after 40 years on faculty at Guelph. He was appointed professor emeritus in 1981 in recognition of his contributions to the beekeeping industry worldwide.

Prof. Townsend's extension and research efforts through the Canadian International Development Agency have helped to improve the living standard of thousands of rural people throughout the Third World. He originated the University's efforts to increase honey production in the developing countries more than 40 years ago.

He is survived by his wife, Nina; daughters Joan Leonard of Peterborough, Stephanie McKinnon of Timmins and Karen Russell of Puslinch; four grandchildren; and two sisters.

Maria Nadvornik

The University community expresses sympathy to the family of Maria Nadvornik, who died Dec. 18 at the age of 42. Mrs. Nadvornik, who joined U of G in 1976, was a staff member in the Department of Clinical Studies.

She is survived by her husband, Milosh, who is manager of the swine operation in the Department of Animal and Poultry Science, and children. □

Personals

For Sale: Ski carrier, folding louvered mahogany door, Beaver uniform, TV tables, fireplace barbecue, 822-3129. Munari downhill ski boots, "Eu Lady Us," size 6 1/2, Ext. 6341 or 824-1241. New twin mattress with box, new European nutria fur hat, European crib with mattress, baby rocker/lounger, 763-4323. 1980 Pontiac Sunbird, one owner, 836-7289 after 5 p.m. 1984 Honda Accord, Gwen, Ext. 4550 or 823-8800 after 6 p.m. 1987 Chev Celebrity — Eurosport, Mark, 823-8800 after 6 p.m. Five-piece bedroom set, Susan, 763-3310. Leather goalie trapper, Ext. 3044. Solid oak Scandinavian bed, 39-inch mattress, 821-7574.

Wanted: Street hockey goalie pads, Ext. 3044 or 822-0289 after 7 p.m.

For Rent: Two newly renovated bedrooms in semi, separate entrance, own bath and kitchen, University area, non-smokers only, \$290 per room per month, 836-8137

Computing Services offers seminars

Computing Services is once again offering a Wednesday series of lunch-time seminars to discuss popular computing topics. All sessions are at noon in Room 204, Computing Services. (Call Ext. 8888 for more details.)

Seminar dates and topics are as follows:

- | | |
|---------|---|
| Jan. 11 | "Hard Disk Organization" |
| Jan. 18 | "Presentation Graphics" |
| Jan. 25 | "Breaking the 640KB Limit" |
| Feb. 1 | "Desktop Publishing I — IBM/PC Solutions" |
| Feb. 8 | "Diagnosing PC Hardware Problems" |
| Feb. 15 | "Statistical Packages" |
| Feb. 22 | "Grammar-Checking Programs" |
| March 1 | "Desktop Publishing II — Apple/Mac Solutions" |

What strategy is best? What backup procedures and menuing systems are available? What packages are available? What are their features? Which is best?

Why is 640K a limit? Extended vs expanded memory. Solutions. See Ventura and PageMaker demonstrated and compared.

My computer is broken. What do I do? Who do I call?

What is available? Which is best in which environment?

What are the capabilities? What is available?

See Ready Set Go! and MacDraw demonstrated.

Personnel report

Response to the recent "Personnel Report" article on the offering of English-as-a-second-language courses to employees was excellent.

The applicants' first languages include Spanish, Japanese, French, Chinese, Korean, German, Rumanian and Dutch.

One-hour introductory meetings will be held Jan. 10 at 9 a.m. and 7 p.m. in Room 335 of the University Centre. Anyone who has registered or needs more information about the courses should attend one of these meetings.

There is still time to apply for the English proficiency courses. Call Employee Relations at Ext. 6700.

Appointments

Josephine Robinson has changed employment from technician (MTS V) to nursing care administrator in the Veterinary Teaching Hospital.

Brenda Dunn of Guelph will join the Veterinary Teaching Hospital Jan. 9 as staff pharmacist.

Audrey McNorton has changed employment from clerk I to transcript clerk (clerk II) in the Office of the Registrar.

Positions elsewhere

Athabasca University's department of arts and sciences is seeking assistant or associate professors in the areas of French, political economy and geography. Closing date for these vacancies is Feb. 28. For more information, contact Diane Ellefson, Recruitment Assistant, Human Resources, Box 10000, Athabasca University, Athabasca, Alta. T0G 2R0, 403-675-6111.

The University of Regina seeks a dean of engineering to commence duties July 1, 1989, for a five-year term. Send applications or nominations, including curriculum vitae and names of three references by, Feb. 28 to Dr. Brian Searle, Vice-President Academic, University of Regina, Regina, Sask. S4S 0A2.

Concordia University is seeking a vice-rector, academic, for an immediate appointment for a five-year, renewable term. Applications or nominations should be forwarded by Jan. 20 to Patrick Kenniff, Rector and Vice-Chancellor, Concordia University, 1455 De Maisonneuve Blvd. W., Montreal, Que. H3G 1M8. □

"Personals" is a free service offered by At Guelph for staff, faculty and students at the University. All items must be typed, double spaced, and submitted to At Guelph one week before publication. □

UNIVERSITY
of GUELPH

At Guelph

Volume 33 Number 2

Jan. 11, 1989



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Cover:

Yellow, red and black banners fly in front of the University Centre in honor of U of G's 25th anniversary. See details of the official opening on page 1.

Photo by David Thomas, PRI

Meetings for the Mind

Treat yourself to a learning experience

Most of us make New Year's resolutions. And most of us fail to keep them.

For those who promised to do something for themselves this year — for personal pleasure or professional development — the University School of Continuing Education has the answer. "Meetings for the Mind — Winter '89" offers courses and programs to suit a wide range of tastes and satisfy the learning needs of people throughout the community.

Speaking of resolutions, people who promised they would lose weight in 1989 and those who vowed to eliminate junk food and pay more attention to their diet will be interested in "You Are What You Eat," a 10-week course beginning Jan. 25. It will provide participants with a computer analysis of their own diet and inform them about the nutrients in the foods they consume each day.

Other new courses to launch the new year include "Forks in the Road: Life's Transitions and Choices," starting Jan. 23; "Essential Math for Math Phobics" and "Zen, Some Western Philosophies, and Who Am I Anyway?" both beginning Feb. 1; "Wine Appreciation III," to be introduced Feb. 3 as a sequel to the popular "Wine Appreciation II," which begins Jan. 31; "Chess — Art, Science or Sport?" starting Feb. 6; "Life as a Landlord," beginning Feb. 13; "An Introduction to Family Law," starting Feb. 15; and "Win-Win Negotiating," a two-day course Feb. 24 and 25.

People who want to make tax time easier should consider "Personal Income Tax Preparation," a one-day course Feb. 18 that can minimize your tax burden for both 1988 and '89 because the course fee is tax-deductible. Later in the year, the "Success Seminar for Secretaries" returns April 19, just in time for Secretaries' Week. "Your Dog's Health and Lifestyle," a new one-day course for dog owners, is scheduled for April 29. And the "Women's Weekend" returns May 12 and 13.

The selection is wide and varied, just as it was 20 years ago when U of G consolidated its continuing education activities with the formal establishment of the Office of Continuing Education, now known as the University School of Continuing Education.

"We see ourselves very much within the tradition of continuing education that has long been a strength at Guelph," says Karen Maki, program manager for community education. "At the same time, we are looking to the future with new courses that we hope will reach even more people in Guelph and the surrounding area."

This season's program includes two new courses for people who need to get their message across with publicity materials, brochures, reports or newsletters: "Good Graphics!" beginning Feb. 7 and "Writing to Sell," starting March 23. Those who wish to double their learning can take both courses and benefit from a special reduced rate.

"Desktop Publishing," a survey course for companies or individuals planning to invest in a desktop system, returns Feb. 2 to provide more hands-on experience in a new, state-of-the-art computer laboratory.

Once again, the "Microcomputing Series" offers "Introduction to DOS and the Personal

Computer," Jan. 21 and 24. The series also includes courses on three popular software packages — dBase III Plus, Lotus 1-2-3 and WordPerfect. New this season, "Sales and Marketing Software" will show people how to use computer technology to increase sales with decreased costs. It begins Feb. 14.

For those who resolved to treat themselves to an "arts experience" in '89, "Meetings for the Mind" provides a number of opportunities. People who plan to visit the Stratford Festival this season should consider "Shakespeare's World," which begins Feb. 8. In a similar vein, "From Page to Stage... at the Guelph Spring Festival" May 6 gives participants a glimpse behind the scenes of *Crazy to Kill*, a whodunit opera that makes its world premiere at this year's festival.

"Rudiments of Music," also new this season, begins Feb. 21 and provides a good beginning for people who want to learn how to find their way through a piece of music. For those with an interest in the visual arts, "Art for Amateurs and Connoisseurs" returns March 8, and "Exploring Watercolors" gets under way Feb. 7.

Other courses for people who wish to develop their creative skills include "How to Write a Short Story," beginning Feb. 2, and "The Novelists' Writing Workshop," four monthly sessions starting Feb. 4 for committed writers grappling with the structure of the commercial novel. These writing courses complement "Writing to Sell," beginning March 23, and "Effective Writing," which starts April 10 and provides help for people who need to develop their ability to communicate effectively, especially in a business setting.

With a focus on the home, "Meetings for the Mind" heralds spring with its three-part gardening series on Saturday mornings: "Perennials in the Garden," March 4; "Vegetable Gardens," March 11; and "Rose Gardening," April 1. Those looking forward to landscaping a new property or transforming an old one should consider "Residential Landscape Design," an eight-week course beginning Feb. 9. For a deeper appreciation of the traditional English garden, don't miss "Gardens of England," a classroom tour that begins Jan. 16 and may serve as a prelude to a real tour of England in July.

As in the past, the Division of Continuing Education offers instruction in many languages including French, German, Spanish and — new this year — Russian.

"Activités en français" returns Feb. 7 in a new three-part format, and "Teaching a Second Language" begins Jan. 23, providing helpful information for students and others who might like to earn extra money teaching English or a heritage language. Once again, people who wish to get the most from their language courses can benefit from "How to Learn a Language" Jan. 17 and, at the same time, receive a credit toward their language-course fee.

"Meetings for the Mind" provides much for those who act on their resolve to do something positive for themselves in 1989. For a free brochure or to register, call Ext. 3956 or 3957. O

You're invited!

Everyone is invited to attend the opening ceremony of U of G's 25th anniversary Jan. 12 at noon in the courtyard of the University Centre.

The ceremony will include lighting the candles on a huge anniversary cake, which will be cut by President Brian Segal. There will also be greetings from federal, provincial and municipal officials and past presidents of the University.

After the ceremony, a light lunch will be served in Peter Clark Hall, where historical photographs of the University will be on display. O



UC marks anniversary with National Ballet performance

U of G's anniversary celebrations take to the stage of Ross Hall Jan. 20 when the University Centre and the 25th anniversary committee present a performance of the National Ballet of Canada.

Canada's premier dance company is the third largest in North America, with a troupe of 70 dancers. The company's repertoire includes nearly all of the full-length classical ballets, as well as a large and growing number of contemporary works. The company's eclecticism has been attributed to the influence of the late Erik Bruhn, who was director of the company from 1983 to 1986.

In Guelph, the company's program will feature "Concerto Barocco," Pas de Deux from "Concerto," "Trapdance," Pas de Deux from "Sleeping Beauty Act III," "Death of a Lady's Man" and "Etel!" Choreography is by George Balanchine, Kenneth MacMillan, John Alroyne, Rudolf Nureyev and David Allan.

The performance begins at 8 p.m. Tickets range in price from \$11 to \$17 and are available at the University Centre box office, Ext. 3940. O

Senate committee proposed on international activities

A proposal for a standing committee on international activities, which would review and develop policies and procedures and make recommendations relating to international programs and the University's academic involvement outside Canada, will go to Senate for approval Jan. 17.

Senate meets at 5 p.m., and the location has been changed to Room 105, MacNaughton building.

The Senate Executive Committee (SEC) will bring forward the proposal. The action follows a SEC examination of the 1988 report of the President's Advisory Committee on Social Responsibility, *The Ethics of International Activities*. The report revealed that there is no procedure for bringing questions of concern about the University's involvement in international activities before Senate, and that the academic governing body does not have a mechanism for reviewing its policy "University Involvement in Development Assistance Projects in Foreign Countries," which was approved by Senate in 1984.

SEC says the new committee would provide a way for regular debate on policies governing international activities, including those of the Centre for International Programs (CIP), and also serve as an arena for discussion of other

international issues touching on the University's academic responsibility — such as a policy on South Africa.

The proposed committee's first task would be to review the present Senate policy on the University's involvement in development assistance projects in foreign countries to determine if it has been effective in its implementation and whether changes to the policy or its *modus operandi* are required, and to make recommendations to Senate. Its second task would be to examine communications relating to the University's participation in the Sulawesi Project and, if necessary, formulate recommendations for a Senate debate.

Senate will also be asked to endorse the committee's membership and terms of reference. The committee would consist of the chancellor, the president, the academic vice-president, the directors of CIP, the University School of Rural Planning and Development and the Counselling and Student Resource Centre; the deans of research and graduate studies; seven faculty members appointed by Senate — one who will be a member of CIP's advisory committee — and one graduate student appointed by Senate.

The chair would be elected by the committee from those members of the committee appointed by Senate. O

Lickin' good

Ice cream course celebrates 75 years

Ice cream — the treat at the birthday party, the reward after a long, hot Sunday afternoon walk — has been important to the dairy industry and U of G for 75 years.

Since 1914, Guelph has offered an ice cream short course that is recognized nationally and internationally for its high professional standards and its success in meeting the practical needs of the ice cream industry. Its hundreds of participants have come from across Canada, the United States, Mexico, Trinidad, Guyana and Malaysia.

Dairy education actually began at OAC in 1891 with a travelling dairy that included instructors who demonstrated and lectured on the handling of milk and the manufacture of butter. The Dairy School started in 1893, in a new building that served as the college's dairy research and education centre for 29 years, until the current Food Science building was opened in 1923.

The ice cream short course was first offered in 1914 as a one-week practical course at the conclusion of the Dairy School. It is now being taught by Prof. Doug Goff.

In celebration of the 75th anniversary of the ice cream short course, a symposium will be held April 19 and 20 at the Airport Holiday Inn in Toronto. Leading speakers from Canada and the United States will discuss "Current Trends in the Ice Cream Industry."

During the symposium, a luncheon will be held to commemorate the contributions of key individuals in the 75-year history of the short course. For more information, call the Division of Continuing Education, Ext. 3956. ○



Billy Doherty, left, and Ron Hampson add just the right ingredients to make ice cream in the 75th annual ice cream short course, held Jan. 3 to 6. Twenty-five people attended the course,

which was organized by the Department of Food Science and the Division of Continuing Education.

Photo by David Thomas, PRI

A new breed of French classes

A new kind of teaching is going on at Guelph this semester for students enrolled in introductory French-language classes.

Lectures on grammar, drills and separate conversation have been replaced by a more integrated learner-centred use of classroom time, says Prof. François Paré, Languages and Literatures, co-ordinator of the course 44-110 "Introductory French 1."

The language is being taught through activities, communication exercises, small group discussion and projects, computer-assisted instruction and audio-visual material. The classroom is now a forum where students work together to acquire the language through simulation, role playing, debates and other learning activities, he says.

Grammar is still taught, but it is only one of the many facets of language learning, says Paré. "There is so much more to mastering a language than verb conjugations and the place of the adjective. Learning French in this country ought to be a lively, concrete experience, so we can communicate with others, listen attentively and express ourselves clearly. There is nothing more exciting than to understand and be understood in a second language."

Each class in the course is team-taught, allowing two instructors to plan a wide variety of learning experiences, says Prof. Dana Paramas, director of the French Studies section of the Department of Languages and Literatures. They organize the class into smaller units and plan activities and tasks appropriate to each group. For the student, the interactions between instructor and fellow students provide models for the kind of real-life communication they will face outside the classroom, she says.

The course does not emphasize formal rules, says Paré. Instead, students are taught to adopt communication strategies to improve their skills in listening, reading, speaking and writing in the French language.

"We do it naturally when we become stranded on a Quebec 'autoroute' because we feel we have no choice," he says. "We can do the same in simulated situations in the classroom."

The new communicative approach in this course is for students with a minimal background in French. There are plans to expand the learning concept to courses 44-111 "Elementary French II" and 44-120 "French Language I." When that is done, says Paré, the University's introductory French courses will be at the cutting edge of language-learning methodology. ○

Obituary

William Goulden

The University has received news of the death of Bill Goulden Dec. 29.

Mr. Goulden was manager of the University Centre's Games Room and Boo Sports Bar from 1975 until his retirement in 1986.

He is survived by his wife, Bette, his daughter, Pauline Rodgers, and two grandchildren, Susan and William. ○

At Guelph

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Drama welcomes Bannerman as artist-in-residence

Guy Bannerman, an actor with the Shaw Festival ensemble, has joined the Department of Drama as artist-in-residence for the current winter semester. He will teach courses in acting and stage voice and will direct a production of Bernard Shaw's *Arms and the Man*, scheduled to run Feb. 20 to 25 at the Inner Stage.

A familiar face on stage at the Shaw Festival, Bannerman has 20 years of experience in Canadian theatre. While still in high school, he performed with the Crest Theatre in Toronto and the Straw Hat Players in Port Carling and Peterborough. In the 1960s, he made several appearances at the Stratford Festival and won a Tyrone Guthrie Award in 1969.

Later seasons included work as a founding member of the Gryphon Theatre and as a member of the company with the St. Lawrence Centre company, Theatre Calgary, the Vancouver Playhouse, the Vancouver Opera,

Festival Lennoxville, the Manitoba Theatre Centre and Tarragon Theatre of Toronto. Bannerman was also a member of the Robin Phillips company at London's Grand Theatre. He has worked extensively on new script development and has directed a number of workshop productions.

Recent roles at the Shaw Festival include Curly in *Peter Pan*, Arjillax in *Back to Methuselah*, Cecil Savoyard in *Fanny's First Play*, Polly in *He Who Gets Slapped* and Commissar Posky in *Geneva*.

Bannerman recently spent a year at Essex University in England as the recipient of a scholarship to pursue postgraduate theatre studies. As well as completing a master's degree at Essex, Bannerman lectured on Canadian theatre, directed stage readings of Canadian plays, established a luncheon theatre and directed and acted in several presentations. ○



Prof. Harry Lane, Department of Drama, left, director Guy Bannerman, centre, and designer Allan Watts, look over some of the costumes for the play *Arms and the Man*, which will run Feb.

20 to 25 at the Inner Stage Theatre. Bannerman, an actor at the Shaw Festival, is artist-in-residence for the winter term.

Photo by David Thomas, PRI



Still committed to hospitals campaign

A delay in U of G's plan to implement a payroll deduction plan for the Guelph Hospitals Campaign has not affected the University's commitment to the campaign, says Gerry Quinn, director of public relations and alumni affairs and development.

"As the largest employer in the city of Guelph, the University is firmly committed to encouraging its employees to support the local hospitals' fund-raising efforts," says Quinn, who is co-ordinating the campus campaign along with Prof. Keith Ronald, director of The Arboretum.

Last month, members of the University community who had pledged contributions through payroll deduction were informed by letter that because of a delay in implementing a necessary computer system, payroll deduction for the hospitals campaign will not be in place until late 1989 or early 1990.

Donors are being asked to honor their pledges by sending one cheque or a series of post-dated cheques directly to each hospital campaign.

"It is the University's intention to continue employee solicitations on payroll deduction once the new computerized system is up and running," says Quinn. ○

Research

Coming soon: cars with smart windows

by Mary Dickieson

The automobile industry is one of the biggest potential markets for a new "smart" window being developed by Prof. Jim Stevens, Physics, and Swedish colleagues.

Smart windows will regulate the transmission of radiant energy, darkening like tinted glasses when the sun comes out and bleaching to transparency when it is overcast.

The windows will be built like a sandwich, says Stevens. Each window will consist of two pieces of glass coated on the inside with a transparent material that makes the glass surface conductive. An electrochromic layer will color and bleach as charged atoms or ions move through it. And in the middle, Stevens' invention of a solid electrolyte will cement the two pieces of glass together and provide a source of ions.

The system will use a small power source and a sensing device to tell the window whether it is dark or light, says Stevens. In its bleached state, a smart window will allow about 80 per cent of the sun's radiant energy to pass through the glass, but will cut the transmission to about 20 per cent when tinted. Other coatings can be added to make the glass selective as to the amount of radiation passing through it, whether ultraviolet, visible or heat.

Technology for eyeglasses

The potential savings in air conditioning and heating costs make the window a natural for use in automobiles and buildings.

Stevens estimates that the auto industry worldwide uses 200 million square metres of glass per year, of which 100 to 130 million square metres are already treated with a coating or laminant. He says there is also interest in developing the technology for eyeglasses, where the power source would be provided by a tiny built-in battery much like those used to operate hearing aids.

Last fall, Stevens received a three-year, \$150,000 strategic grant from the Natural Sciences and Engineering Research Council to continue studies on the chemistry of the electro-

lyte. This project will use the expertise of Prof. Ken Jeffrey, Physics, and the technique of nuclear magnetic resonance to study the motion of the ions in the electrolyte. Researchers at Hart Chemicals Ltd. and Nacan Products Ltd. will collaborate in studying the feasibility of commercial production.

The polymeric electrolyte, which makes the smart window work, is the result of Stevens' efforts to find a solid material to replace liquid electrolytes such as those used in automobile batteries.

Worldwide effort

There is a worldwide effort to develop a workable replacement for the lead acid battery (discovered in the 19th century) that would be lighter, more powerful and entirely composed of organic materials. One problem to overcome is the fact that organic materials being investigated take up water, resulting in deterioration of the battery.

Stevens says the solid electrolyte he is using seems to be more resistant to taking up water and is made from chemicals that are cheap and commonly used in industry. The recipe sounds simple, but unlikely: a surfactant plus Plexiglas and a dash of salt.

Many scientists might be skeptical that Plexiglas could be made to permit ions to move through it, says Stevens, who has conducted extensive studies on the chemical combinations we know as glass. A chemical diagram of his electrolyte would look like a loose network or mesh of the molecules that make up Plexiglas.

Draped on this network are long-carbon-chain molecules (with properties similar to a surfactant or detergent) that have oxygens in their backbone. Some of the oxygens are complexed with a lithium salt. The combination is a solid, adhesive, transparent electrolyte.

Stevens discovered the formula for the solid electrolyte while on sabbatical in 1984/85 at the Chalmers University of Technology in Sweden. He has applied to patent the technology through the Swedish patent office. O



Behind this maze of test tubes, Prof. Jim Stevens, left, and graduate student Wilf Wixwat discuss the distillation of methyl methacrylate, a major component in Plexiglas, which is, in turn, the basis of the polymeric electrolyte developed by Stevens. Wixwat is the first (GWC)² student in physics and is one of three graduate students involved in projects related

to the development of "smart windows." (GWP)² students Yungling Fu and Song Ho Chung are working on the development of the doped polyether "surfactant" used in Stevens' electrolyte and the use of NMR to study the motion of the ions in the material.

Photo by Mary Dickieson, PRI

Industrial pollutants harm field crops in Ontario

Like disease and insects, industrial pollutants have become a major enemy of farm crops.

Preliminary findings from a unique laboratory and field research program at U of G show that

ground-level ozone gas — formed when oxygen mixes with fossil fuel exhaust — causes growth reduction in crops like corn, soybeans, tomatoes and green beans.

"I suspect ozone gas is causing the third most damage to field crops," says Beverley Marie, a research associate in the Department of Horticultural Science. It's estimated that ozone causes \$30 million in damage to Ontario crops each year, she says.

Noxious ground-level ozone gas is like the stratospheric ozone layer that blocks out the sun's harmful ultraviolet rays. When generated in increasing quantities, however, it's harmful to some plants. Industrial activity is at the heart of both ground-level ozone formation and the degradation of the stratospheric ozone layer.

"Environment quality guidelines are in place," says Marie, "but southern Ontario regularly receives polluted air masses from the United States. And industry continues to develop here, with the inevitable contamination of air and soil surrounding industrial facilities. The current competitive business climate limits the likelihood that a major reduction in industrial emissions will occur in the near future, unless cause-and-effect relationships are established."

Borrowing a design from the U.S. Environmental Protection Agency's environmental research laboratory in Oregon, Marie, project supervisor Prof. Doug Ormrod and a team of technicians built a dozen open-top "pollution chambers" in a field near the University.

The cylindrical chambers — eight-foot-tall, 10-foot-wide metal frames wrapped in two layers of clear polyethylene plastic — were fed computer-controlled quantities of ozone gas. The chambers' opaque plastic shell and open-top design let the plants inside receive nearly normal levels of rainfall and sunlight.

"With the dryness and heat we experienced this summer, ozone damage paled in comparison to drought damage," says Marie, but it's becoming clear that ground-level ozone is taking its toll.

Marie's research is designed to provide current information for setting air quality objectives for single and mixed gases.

"Understanding vegetation responses to gaseous pollutants is important to both the polluting industries and to the affected vegetation-based industries to provide the basis for a balanced prosperity for all sectors of the economy," she says.

This research project is supported by the Ontario Ministry of Agriculture and Food, the Natural Sciences and Engineering Research Council, Environment Canada and the Ontario Ministry of the Environment. O

The Arboretum helps restore Kew gardens



Arboretum curator John Ambrose examines Kentucky coffee trees like those shipped to the Kew gardens near London, England, to help restore a stand of trees damaged by a violent windstorm. Each fall, Arboretum staff collect 40 to 50 different species of evergreen and

broadleaf seeds, which are kept in cold storage in the R.J. Hilton Centre, to answer requests from botanical gardens and arboreta around the world.

Photo by Mary Dickieson, PRI

The Arboretum has donated seeds from a Kentucky coffee tree and other native Ontario trees — black maple, mountain maple and crab apple — to help restock wind-damaged areas of the English countryside. Many of the seeds will be planted this spring at England's Royal Botanical Gardens at Kew.

The Guelph effort was part of a Canadian project that donated one evergreen seed for each Canadian — 26 million — and 35,000 broadleaf seeds to help restore woodland areas damaged more than a year ago by a violent windstorm. The storm destroyed or severely damaged 1,000 trees at Kew alone, one of the world's most important botanical gardens.

Arboretum curator John Ambrose collected 500 seeds each from wild populations of black maple near Windsor, mountain maple at Everton and wild crab apple at Simcoe.

"We had to locate a pure stand of each tree to avoid hybridization," says Ambrose. These seeds were shipped to the Ontario Ministry of Natural Resources to help make up Ontario's contribution to the project.

Seeds from the Kentucky coffee tree, however, were donated directly to the Kew gardens. Ambrose has collected seeds from this rare species from wild populations across North America for a study of genetic variability. The seeds for the Kew gardens were collected by the Essex Region Conservation Authority from a pure stand of Kentucky coffee trees near Amherstburg.

The Arboretum has a regular program for seed collection and maintains a bank of seeds available to other institutions and botanical gardens around the world.

"We usually collect 40 to 50 different species each year, being careful to offer rare species or those that have potential for use elsewhere," says Ambrose. In turn, The Arboretum looks to other seed banks to obtain new plant materials that have horticultural or landscape potential for Ontario, he says. O

Women in Ontario universities—

COU tracks progress, urges building on beginning achievements

Editor's Note: The Council of Ontario Universities (COU) committee on the status of women in 1986/87 developed policy recommendations in four areas — non-academic staff, graduate students, faculty and the university climate. A report, with a series of general recommendations and suggestions for institutional action, was distributed to Ontario universities. In 1987, the committee asked COU to survey member institutions about internal dissemination of the report and its impact on policies and practices relating to the status of women. COU released the results of the survey in *Briefing Notes* in December, reprinted here with COU's permission.

Introduction

In addition to answering questions on dissemination of the report, procedures and responsibility for implementation, and specific new initiatives, several institutions sent copies of employment equity reports and other relevant documents. The individual institutions mentioned in this summary are given as examples only.

The survey asked about procedures set up for reporting on progress in the areas covered by the report. In most cases, employment equity officers or status of women officers and committees were reported as having a general responsibility. The Ontario Institute for Studies in Education (OISE), for example, has "an extremely active" employment equity affirmative action ethnoculturalism and anti-racism committee, which will be addressing the recommendations in the COU report.

At Wilfrid Laurier University, deans were asked to review the document and report on the current status of women in areas under their responsibility. Other institutions named senior administrators, such as vice-presidents, as having responsibility for specific areas.

The survey also asked whether any new initiatives had been stimulated by the COU report. As might be expected, it is difficult to separate the direct impact of the COU report from other influences. However, a few responses indicate that the report was useful as a checklist or a model for organizing internal reports. It may also have helped to validate the work already begun by employment equity officers or committees. The report seems to have had the most direct influence in the graduate studies area.

Most institutions reported programs and activities undertaken over the last several years, not just since April 1987. Clearly the Federal Contractor's Program, the Ontario Employment Equity Incentive Fund, the Pay Equity Act and the Faculty Renewal Fund have stimulated institutions to either develop new initiatives or supplement activities begun sometime earlier. The committee intends to monitor developments on an annual basis.

Non-academic staff

In the area of non-academic staff, reviews of personnel policies and practices, including job descriptions, advertisements and promotion notices, were most frequently reported, usually as part of employment equity programs begun earlier or in preparation for pay equity.

In the area of non-academic staff, reviews of personnel policies and practices, including job descriptions, advertisements and promotion notices, were most frequently reported, usually as part of employment equity programs begun earlier, or in preparation for pay equity.

Statistical analysis of staff complements and collection of data by gender on job applicants and appointees has also been undertaken as part of the requirement of employment equity programs. McMaster University's personnel department, for example, is developing a computerized application tracking program that will enable data collection for monitoring recruitment and promotion.

Trent University has already implemented pay equity for non-academic staff. At all Ontario universities, reviews of job classification and evaluation systems are being undertaken in accordance with the Pay Equity Act.

Laurentian University's employment equity report, published in late 1987, included numerical targets for increased hiring of women in a number of priority departments where women are currently under-represented. Three other universities — McMaster, Toronto and York — are developing quantified goals or

targets for hiring into middle and senior administrative positions. A number of universities reported that the advancement of women at these levels has already increased.

Universities are giving increased attention to staff training and development for both managers and secretarial and clerical staff. Ryerson Polytechnical Institute has held discussion seminars with managers and supervisors on employment equity and recruitment strategies. At the Ontario College of Art, the development and dissemination of training programs for clerical and secretarial staff is in direct response to the committee's suggestions.

The University of Guelph has a policy that enables targeted employees to attend management development seminars and, like other universities, permits employees to pursue degree studies free of charge.

Lakehead University has training for supervisors on such topics as human rights, communication, recruitment and the troubled employee.

Queen's University provides funding for senior administrative women to attend courses at Bryn Mawr, the University of Western Ontario and the Queen's Centre for Industrial Relations.

There is a general recognition that more training and retraining need to be done, particularly within the context of human resource planning. For example, the University of Toronto has established a new position — director of staff planning and development — and has as a priority the improvement of the career development and training system. U of T is also exploring ways to retrain women for non-traditional jobs.

Employee associations are obviously concerned about training opportunities. The York University Staff Association has an agreement with the university respecting recommendations of the COU report on training and retraining.

Graduate students

The COU report has apparently caused many institutions to examine gender issues within their graduate programs. At the system level, the Ontario Council on Graduate Studies (OCGS) is holding a two-day retreat in April on the subject of women in graduate studies.

In some cases, graduate deans have been asked to look at the suggestions in the report in relation to their own programs. At Queen's University, for example, the three constituent schools of the graduate school have been requested to report all initiatives undertaken internally concerning gender-related issues.

At least six institutions have begun to collect data by gender on graduate applications,

enrolments or completion rates. In 1986, COU's committee on the status of women had asked OCGS to begin to collect such data. Carleton University has undertaken a cohort analysis of one graduate department to examine and compare the numbers of applicants, admissions and completion rates. At the University of Western Ontario, the dean of graduate studies has initiated a review of the proportion of male and female graduate students in each department and faculty.

Reviews of policies regarding part-time graduate enrolment and the institution of maternity leave for teaching assistants were also reported.

At Carleton University, as part of the 1987 agreement with CUPE, teaching and research assistants are eligible for maternity leave after 20 weeks of part-time employment. At Brock University, extensions beyond the five-year limit for completion of master's degrees are granted for such reasons as family responsibilities.

Some special programs were identified. For example, the University of Windsor has begun to develop visual materials to encourage women to enter engineering programs, and also reports an MBA scholarship for women, a directory of external scholarships, and monitoring of teaching and graduate assistant awards and conference travel funds.

Recognizing the importance of mentors and role models for women graduate students, York University reports that collective agreements have been made with the faculty association and CUPE regarding increasing the number of women faculty.

Faculty

Several institutions are now collecting data by gender for faculty recruitment and appointments, or have established procedures for reviewing the appointments process to ensure that gender bias is removed.

At Lakehead University, a faculty recruitment form is used for all competitions. This form follows the competition from the beginning to the end to monitor the progress of female candidates.

At the University of Toronto for the past two years, the provost's office has developed a report on new junior tenure-stream hiring relative to doctoral enrolments. The reports have been published in the university's newspaper.

Policies and procedures pertaining to hiring, tenure and promotion have been reviewed at all institutions as part of employment equity programs.

One institution, the University of Windsor,

reported the use of quantified targets within its employment equity plan. Laurentian University's 1987 employment equity report recommended the development of five- and 10-year plans for the hiring and promotion of women faculty.

The report identified priority departments for special attention and action in the first five years of the program, and also developed statistics relevant to the setting of targets, such as anticipated retirements by department.

Bridge financing and other financial incentives for hiring units have been introduced (for example, at the University of Western Ontario and York University). The University of Waterloo designed a significant proportion of its faculty renewal funding for the hiring of women. The University of Toronto expressed concern about the perceived quality of women hired with special funding, but approved the concept of bridge funding.

There is also an increasing awareness of the need to ensure greater flexibility in timing of career decisions. Maternity, adoption and parental leave policies have been improved, sometimes as part of collective agreements. The University of Ottawa reports "the most generous maternity leave of all Canadian universities (19 weeks at full salary)." Female faculty are also eligible for up to two years of unpaid leave, with postponement of tenure deadline and reduced workload, without a loss of pension entitlement.

McMaster University reports flexibility in timing of career decisions for all faculty. Regular tenure and promotion policies also apply to faculty members granted part-time status (three-quarter time).

Several institutions reported increased hiring of women because of the Ontario government's faculty renewal program. Affirmative action has been a part of the collective agreements in one institution — York University.

The institutions that reported on equal pay for equal work believe that their current procedures for correcting anomalies are effective. The University of Waterloo has undertaken a comprehensive review of salaries of women faculty, using a peer review procedure. Ryerson has completed a regression analysis of faculty salary differentials for female and male faculty. The University of Toronto reviewed starting salaries and PTR awards in 1986, and is considering a methodology for a new review of women's salaries.

Climate at the universities

Several universities reported statements of commitment to equity and the elimination of gender bias in the university environment.

	Status of Women Officer	Employment Equity Co-ordinator	Language Policy/Guidelines	Sexual Harassment Policy/Procedures	Sexual Harassment Centre/Advisor/Officer	Women's Centre	Women's Resource Centre/Library	Women's Studies
Brock		•		•				(•)
Carleton	•		•		•	•	•	
Guelph		•	•					•
Lakehead		•		•		•		
Laurentian	•		•	•			•	(•)
Laurier	•	(•)						(•)
McMaster		•	•			•		
Ottawa		•	•	•		•		•
OCA		•		•				
OISE		(•)	•	(•)			•	•
Ryerson		•	•	•	(•)	•		(•)
Queen's	(•)	•	•	•		•	•	•
Toronto	•	•	•	•	•	•	•	•
Trent	•	•	•	•		•		•
Waterloo	•	•	•	•		•		(•)
Western	•	•	•	•		•		(•)
Windsor		•	asap	•		(•)		
York	•	asap	•	•	•	•	•	•

(•) indicates the facility is in some way limited, for instance, only minor specialization in Women's Studies Courses, sexual harassment complaints dealt with only via union grievance procedures, an officer with other major duties.

Resources for women in Ontario universities.



Join the fitness generation at Athletics

All universities reported progress in climate matters such as ensuring gender-neutral language and imagery in university documents, the establishment of sexual harassment policies and procedures, improvement in relevant health and safety practices, and recognition of family responsibilities through leave policies, day care (present, but usually insufficient) and flexible hours.

Most of the reported initiatives were instituted before the appearance of the COU report. Carleton University, for example, has conducted a survey on sexual harassment as part of a review of its sexual harassment policy and procedures, which have been in place since 1984.

The responses indicate that within the limits of available resources, universities are attempting to provide services and correct the more tangible aspects of inequity. But some areas of university life may be less amenable to removal of gender bias. One university requires gender-inclusive language in all publications and documents, but notes that "curricula, classroom and work settings are harder to monitor."

At Ryerson, the president's advisory committee on athletics and recreation has established a subcommittee on gender equality in inter-university athletics that will develop a five-year plan to promote gender equality in the Ryerson athletics centre.

Trent University has made funds available to enhance the recruitment of science students, with emphasis on attracting women. Others also stressed the need to increase the representation of women in some traditionally male programs, particularly engineering.

Making equity an integral part of university culture is, of course, the ultimate goal. At York University, the university academic plan promulgated by the senate explicitly established the vigorous pursuit of equity for all members of the York community and especially calls for "special efforts to appoint women to tenure track positions, and otherwise provide an encouraging academic climate for all students and faculty members, regardless of sex."

Conclusion

COU looks forward to more progress in some areas, such as the development (and achievement) of hiring targets for women faculty, the advancement of women to the highest administrative positions, the increased participation of women in the sciences and the elimination of gender bias in both formal and informal settings.

Much of the groundwork in data collection, policy review and education has been undertaken by employment equity co-ordinators, status of women officers and members of committees in the individual institutions, usually working with limited resources.

COU hopes that administrations will continue to build on these positive achievements, keeping in mind that the development of an educational and working environment free of gender bias should be the objective not just of women, but of the entire university community. ○

Fitness has become a way of life at U of G, and the Athletics Department has set up several new programs to help us keep in shape.

Registration for this semester's classes continues to Jan. 12 at the Athletics Centre. The fitness boon of five years ago now appears to be a reshaping of lifestyles, not simply a fad, says Pat Richards, fitness program supervisor, Athletics. Last semester, more than 1,050 people registered for Athletics' classes, and the department now has 40 qualified instructors who are certified through the YWCA or Fitness Ontario and hold CPR certification.

Athletics has made a few changes to its program for this term, says Richards. A new course, "Fac-Staff Fit," is aimed at

encouraging faculty and staff to work out together and offers power walking as the cardio component. Power walking is a safe, enjoyable way to lose weight and strengthen muscles, says Richards.

Another new course is "Cardio-Fit," a workout program for those who want lots of cardio, instead of muscle, strength. Usually the maximum length of time for a cardio workout is about 20 minutes, says Richards. The cardio workout could go as long as 35 minutes.

Athletics offers a full range of programs — 12 classes every day between 7:30 a.m. and 5 p.m. and some evening classes. The variety and timing of the classes gives people the flexibility to work out at conven-

ient times, says Richards.

Athletics also offers fitness testing, an aerobic alternative to impact aerobics. "These workout classes offer you the same level of workout that you see on television, but without the shin-splint and knee problems that jumping on the spot can create," says Richards.

Registration continues to Jan. 12; after that, there is a \$2 late fee. Faculty and staff require a membership to use the facilities — \$45, of which 75 per cent is paid by the University. Faculty and staff can simply pay their \$15 share of the membership when they register for their classes, says Richards. Students paid their fee when they registered for the semester. ○

Ontario development leaders here

Canadians working in every area of international development will be on campus to host workshops at the fourth annual "Working for Development" conference Jan. 27 and 28.

Kathy Kennedy, programmer at the Development Education Program in the Centre for International Programs, says the conference is for people who are wondering: "What is the best way to support a Third World country's efforts to develop?" "How do I get involved?" "What skills do I need?" and "What should I expect?"

Peter Dalglish, executive director of Street Kids International (SKI) and past co-organizer of the 1984 Emergency Airlift to Africa, will talk about his work in the keynote address Jan. 27 at 7:30 p.m. in Room 117 of the library. Admission for the general public is \$2.50.

SKI supports projects in the developing world

that promote independence and self-sufficiency for urban youth. Dalglish will talk about SKI's innovative bicycle courier projects in India and Guatemala.

He will also bring a test version of a cartoon video for street kids about AIDS entitled "Survivors," produced by SKI and the National Film Board. The tough-talking video has been tested on 850 poor urban children in Nairobi, Colombo, Sri Lanka, Manila, Rio de Janeiro and New York and will officially premier at the World Health Organization international conference in Montreal in June.

Workshops focusing on areas such as environment, fund raising, social work, housing, agriculture, religion and media will be held Jan. 28.

Conference organizer Hanna Bulow says these are for people who want to learn about what happens in field work. Participants will get a realistic look at development and a sense of how they can take part. Workshops will be led by representatives from organizations such as Oxfam and Pollution Probe. Members of Canada World Youth and World University Service Overseas will also be present to discuss future opportunities.

The conference registration fee of \$10 includes the keynote address, workshops and lunch on Saturday. Cost is \$12.50 after Jan. 17. Attendance is limited to 100 people.

For more information or to register, call Kennedy or Bulow at Ext. 6918. ○

Focus



Dan Rose

Photo by David Thomas, PRI

UGAA president

Dan Rose remembers a strong sense of community when he studied at OAC in the late 1950s.

As 1988/89 president of the University of Guelph Alumni Association (UGAA), Rose wants to rekindle that sort of camaraderie among all alumni.

"In those days, everyone from a class lived together. They don't do that anymore, so there isn't that close relationship. We have to find other ways to bring people together," says Rose, a graduate of OAC '57A and '60.

Alumni spirit seems to be the strongest in the three founding colleges, says Rose. "My main goal is to lay the groundwork to strengthen the (alumni) associations in all the colleges."

One way to do that is to strengthen traditions like Homecoming, Alumni Weekend and

College Royal by gearing them more to particular classes, he says. He also points to OVC's continuing education seminars as a good way to sustain people's relationships with the University.

Alumni should remain involved with the University because they can play a role in its future, says Rose. "Certainly we're interested in how the campus develops and would like to be aware of any plans. We should have input on any changes, as any other interested group would," he says.

Rose, who majored in animal science and also holds a master's degree in extension education, served for three years on the board of directors of the OAC Alumni Association and has been active with UGAA for several years. He works for the Ontario Ministry of Agriculture and Food in Orangeville. ○

Education watch

IBM supports supercomputing centre

IBM Canada Ltd. has donated \$1.8 million in equipment and services to establish an academic supercomputing centre at the University of Victoria. The company also intends to help set up two similar centres at the Ecole Polytechnique de Montreal and the University of New Brunswick. The IBM donation will be matched by a B.C. government grant, under a \$110-million program announced last May.

Charter of rights — mini-series style

Three researchers at the University of Calgary and the University of Toronto have received a \$75,000 grant from the Donner Canadian Foundation for a project to make the Canadian charter of rights more available and comprehensible to the public. The researchers are currently editing Supreme Court judgments on the charter to reduce them to a more manageable size. Some 20,000 reports of *Leading Constitutional Decisions* have been sold since 1985. The researchers hope the Donner grant will help in disseminating the series to a larger number of people.

And why did you vote?

A political science team led by the University of British Columbia has been studying the techniques used by the political parties to influence voters in the Nov. 21 federal election. The \$470,000 study

is funded by the Social Sciences and Humanities Research Council. Results of the study, which is being led by principal investigator Dr. Richard Johnston, are expected to be ready next spring.

Alumni leaders meet

University of Waterloo alumni leaders are talking about how the university's 50,000 graduates can help the institution. At the first annual meeting of a new national alumni council, a senior body that will co-ordinate alumni involvement in everything from reunions to government lobbying, members heard that the university's current three-year fund-raising campaign is expected to reach its \$3.1-million goal on the campaign's second anniversary.

Everyday English for Radio China

McGill University's centre for continuing education has produced the academic material for a 40-week English course to be broadcast in China by Radio Canada International — the shortwave radio service of the CBC. The series, "Everyday English," will be produced at RCI's headquarters in Montreal. It will reach some 100 million Chinese people via radio stations in Beijing, Shanghai, Guangzhou and Xian. The course is the first of its kind to be designed for listeners in a specific country. ○

Briefly

B of G cancelled

The Board of Governors meeting scheduled for Jan. 26 has been cancelled. The next regularly scheduled meeting of the board will be held Feb. 23.

Pianist performs

The Thursday noon-hour concert series launches its winter program Jan. 12 with Toronto-born pianist Malcolm Troup. Troup began composing at the age of nine and debuted as pianist with the CBC orchestra at 17. A recipient of the Commonwealth Medal, he is a frequent soloist on the BBC and has toured Eastern and Western Europe and North and South America. In 1970, he was appointed director of music at the Guildhall School of Music and Drama in London. Five years later, he went on to create a new department of music at City University of London, where he was given a personal chair in 1980. His program at 12:10 p.m. in Room 107, MacKinnon building, will consist of Beethoven's "33 Variations on a Waltz of Diabelli, Opus 20."

Children's concert

Award-winning children's recording artist Eric Nagler will perform Jan. 29 at 1 p.m. in War Memorial Hall. Renowned for his ability to engage children and parents to join in together and form part of the concert experience, Nagler has toured extensively throughout North America. He is a master of homemade instruments ranging from the well-known (hano, mandolin, guitar and fiddle) to the not-so-well-known (psaltery, nose flute and bohran). Tickets are \$6.50 and are available from the University Centre box office.

Theatre in the Trees

The Arboretum's dinner theatre, Theatre in the Trees, is offering the Neil Simon comedy *I Ought to be in Pictures*, directed by John Snowdon. Scheduled performances are Jan. 21 and 28, Feb. 4, 11, 18, and 25, March 4, 11 and 18, April

1, 15, 22 and 29, and May 6. Dinner is at 6:30 p.m.; the play begins at 8 p.m. Cost is \$29.50. Tickets are available at the University Centre box office, Ext. 3940. For more information, call Ext. 2113.

TCoSy help

If you need help with TCoSy, the TCoSy Support Group has a "buddy" who can help you. Call Marty at 763-9657.

Film festival donations

An anonymous donor has offered to match individual or corporate donations to the 1989 Guelph International Film Festival on a one-to-one basis, up to a total of \$300. Send contributions to the film festival care of the Development Education Program in the Centre for International Programs. The 1989 festival, which will focus on environment and development, will hold its first planning meeting of the new year Jan. 12 at 7 p.m. at the Guelph Community Network at 5 Douglas St. All interested individuals and groups are invited to attend. For more information, call Kathy Kennedy, Development Education Program, Ext. 6918.

Learn to relax

The Stress Management and High Performance Clinic in the School of Human Biology will offer noon-hour and evening group relaxation classes this winter, as well as relaxation classes for students in residence, biofeedback-assisted relaxation classes and booster classes. Private training sessions are also available by appointment. Class registration begins Jan. 19 and is in Room 209, Human Biology building, except for the student class, which is in the Fireplace Lounge, Lennox-Addington Hall. The noon-hour group class runs for 12 sessions Monday and Thursday from 12:10 to 1 p.m. and is primarily for self-education. Cost is \$80; registration is Jan. 19 at 12:10 p.m. The evening class is Monday and Thursday from 7:30 p.m. to 8:30 p.m. and is designed for people with stress symptoms. Cost is \$100; registration is Jan. 19 at

7:30 p.m. The class for students is Monday and Thursday at 7 p.m. Cost is \$55; registration is Jan. 20 at 7 p.m. Biofeedback-assisted classes are Fridays from 3:30 to 5 p.m. Cost is \$130 for nine sessions. Registration is Jan. 20 at 3:30 p.m. Four booster classes for former class members will be offered Tuesdays once a month at 7:30 p.m. Cost is \$25; registration is Jan. 24 at 7:30 p.m. For more information or to reserve a place in a class, call Ext. 2662.

Computing series

Computing Services' lunch-time seminar series continues Jan. 18 with a discussion of "Presentation Graphics" and Jan. 25 with "Breaking the 640KB Limit." Sessions begin at noon in Room 204, Computing Services.

HAFA Restaurant hours

The HAFA Restaurant opens for the winter semester Jan. 17. Dining room service and buffet service will be available Tuesday through Friday from 11:45 a.m. to 1 p.m. For dining room reservations, call Ext. 8116.

Art on display

Artwork by U of G graduate Tom Carroll is on display at the Bookshelf Cafe until Feb. 6. The works range from portraits and still-lives to landscapes, in a variety of media, including graphite, oil and encaustic paint.

OVC seminars

The OVC seminar series continues Jan. 11 with Dr. Bill Stubbs, a local veterinarian, discussing "Has Continuing Education Been Effective in Veterinary Medicine?" at 12:10 p.m. in Room 508, Clinical Studies.

Counselling available

The Marriage and Family Therapy Centre in the Department of Family Studies offers professional counselling on marital, family, sexual and relationship issues. For information or an appointment, call Ext. 6335.

Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry, 8 p.m., UC 533.

MONDAY, Jan. 23

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 5:10 p.m., UC 533.
Art Lecture - Ron Shuebrook, 3 p.m., Macdonald Stewart Art Centre, reception to follow at 4 p.m.

WEDNESDAY, Jan. 25

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Feminist and Christian, 10:10 a.m., UC 533; Ecumenical Holy Communion, 12:10 p.m., UC 533; Immanuel Christian Fellowship, 5 to 7 p.m., 287 Water St.; Community Fellowship, 5 to 7 p.m., Chaplain's Lounge, UC Level 3.
Computing Seminar - "Breaking the 640KB Limit," Computing Services 204.
OVC Seminar - "Feedlot Health Management," Ken Bateman, 12:10 p.m., Clinical Studies 508.
Workshop - "Writing for Development and Change," 1 p.m., UC 103.

Have your say . . .

At Guelph welcomes contributions from members of the University community.

Letters to the editor, faculty, staff and student activities, articles for "Forum" — the editorial section — and speeches are welcome. If you know someone who would make a good subject for a human interest article for the "Focus" column, give us a call.

Letters and editorials should be typed, double spaced and signed by the author. Each will be verified by a phone call. The executive editor reserves the right to select, edit and position all copy.

If you have ideas on how to make *At Guelph* a more informed and involved University community publication, call or write Public Relations and Information, Level 4, University Centre, Ext. 3864. O

Awards

Prof. Cameron Man, School of Landscape Architecture, received the 1988 president's medal of the American Society of Landscape Architects. ASLA presented the medal to recognize Man's outstanding contributions to the development of the profession and his service to the society at its annual awards ceremony in Seattle, Washington, in November. He is the first Canadian to win the medal.

At the same ceremony, two of the school's graduates received merit awards — Foster Ndobisi, for the project "Community Planning for Amerindian Cultures: A Phenomenological Approach," and Bob Scarfo, for "Dealing with Change in the Connecticut River Valley: A Design Manual for Conservation and Development."

Dr. Richard Schneider, a graduate student in the Department of Pathology, has received the Arlen-Kerr Memorial Scholarship of the Canadian Mink Breeder's Association. O

Courses

Principles of marketing to farmers

Marketing to farmers requires special skills. It takes not only a knowledge of marketing strategy and research, but also an awareness of the specific needs of farmers and the decision process, as well as current agricultural issues.

For the people who need these skills — agribusiness dealers, distributors, manufacturers and providers of related services — U of G offers "Agribusiness Marketing Management," a practical course focusing on the basic principles of marketing to farmers. The course runs from Jan. 31 to Feb. 3.

Since 1975, more than 1,000 agribusiness managers in Canada and the United States have participated in this unique course, led by Prof. Tom Funk and Jane Gaylord Funk, Department of Agricultural Economics and Business.

The course deals exclusively with agriculture, is based on up-to-date marketing research and includes actual case studies of agribusiness marketing problems from Canada and the United States. To register, call Ext. 3956. O

Trading in commodity futures

The face of agriculture is constantly changing, at home and abroad. To deal with that change, the people who produce, use and trade agricultural commodities need the most up-to-date information they can find.

"Trading in Commodity Futures," a four-day course being offered on campus Jan. 17 to 20, is designed to provide a knowledge of the newest methods and strategies for understanding and participating in agricultural and exchange rate futures markets. The course has been offered annually since 1981.

Seminar leaders are Prof. Larry Martin, Department of Agricultural Economics and Business, and Dr. Wayne Purcell of Virginia Tech University. Both are internationally recognized specialists in the field of agricultural economics. An agricultural marketing consultant to agribusiness companies and organizations in Canada, the United States and Europe, Martin is also a former member of the board of governors of the Winnipeg Commodity Exchange.

Of value to anyone with an interest in futures markets, "Trading in Commodity Futures" will be of particular benefit to producers, grain elevator and feed mill managers, meat packers, food processors and those involved in agricultural financing. Participants will gain a better knowledge of the terminology of futures markets, receive help in developing a marketing plan and learn the essential principles of futures trading through the use of case problems. To register, call Ext. 3956. O

elsewhere

The University of Winnipeg is seeking a president and vice-chancellor to assume duties Sept. 1. Applications and nominations with curriculum vitae should be sent by Jan. 15 to Dr. Roger Kinsley, Secretary, Presidential Search and Nominating Committee, University of Winnipeg, 515 Portage Ave., Winnipeg, Man. R3B 2E9. O

Coming events

WEDNESDAY, Jan. 11

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Feminist and Christian, 10:10 a.m., UC 533; Ecumenical Holy Communion, 12:10 p.m., UC 533; Immanuel Christian Fellowship, 5 to 7 p.m., 287 Water St.; Community Fellowship, 5 to 7 p.m., Chaplain's Lounge, UC Level 3.
Computing Seminar - "Hard Disk Organization," noon, Computing Services 204.
OVC Seminar - "Has Continuing Education Been Effective in Veterinary Medicine?" Bill Stubbs, 12:10 p.m., Clinical Studies 508.

THURSDAY, Jan. 12

Pathology Seminar - "Fatal Epizootics in Cheetahs," 11:10 a.m., Pathology 220.
25th Anniversary - Opening Ceremony and Cake Cutting, noon, UC courtyard; Lunch, 1 p.m., Peter Clark Hall.
Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Relationships: The Central Concern of Jesus, 4 p.m., UC 335; Exploration in Meditative Prayer, 5:10 p.m., UC 533; Social Evening, 6 to 9 p.m., UC 334/335.

FRIDAY, Jan. 13

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 8:10 a.m., UC 533.
Men's Volleyball - Vs Toronto, 7:47 p.m., Athletics Centre, 52.

SUNDAY, Jan. 15

Worship - Morning Worship Service, University Bible Studies, 9 a.m., UC 441; Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry, 8 p.m., UC 533.

MONDAY, Jan. 16

Worship - Devotions, Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 5:10 p.m., UC 533.
Human Biology Seminar - "Spring Training in Rainbow Trout," 12:10 p.m., Human Biology 108.

Inside Guelph

The Macdonald Stewart Art Centre

by David Thomas

The Macdonald Stewart Art Centre isn't just an art gallery — it's a dynamic institution that has a mandate to foster greater appreciation and understanding of the visual arts among the various audiences it serves.

"The collection (in the centre) is held in public trust, so it's our duty to see that it grows and matures in a responsible way," says director Judith Nasby. "It makes it very exciting for us."

Because the centre is sponsored by four different organizations — the University, the City of Guelph, the County of Wellington and the Wellington County Board of Education — it presents "a highly diversified exhibition program to a broad public," says Nasby.

The centre attracts everyone from tourists and Department of Fine Art students writing critiques, to Brownies doing their art badges, and it hosts activities ranging from artists' talks to collectors' meetings, she says.

Curator Ingrid Jenkner says the centre's role is not just to show works of art; it's to create programming as distinctive as the viewers who go there. "We try to balance exhibits among different types of visual production — historical and decorative art, crafts and design. We originate shows by contemporary artists. Often, they're U of G graduates, artists of national reputation or other artists who work innovatively with new media."

Two upcoming exhibitions involve Guelph and the University directly. "The University of Guelph Fine Art Alumni," Jan. 19 to Feb. 26, will present works by more than 30 fine art graduates. It will be followed March 2 to April 9 by "Viewpoints," the annual juried exhibition open to artists and craftspeople from the region.

There are about 20 exhibitions at the art centre each year, many of them locally initiated shows that go on tour to other galleries. A display of Inuit drawings, which consists mostly of works from the centre's own collection, will be exhibited at the new National Gallery in Ottawa Jan. 12 to March 26 before touring the United States.

The centre also has a year-round outdoor exhibition of sculptures in its Donald Forster Sculpture Park, named for the late U of G president. The collection is added to annually, thanks to a competition sponsored by Imperial Tobacco Ltd. (See accompanying story.)

Exhibiting art is only part of the centre's work. Research and publishing are also an important component. "Sometimes people mistake a catalogue for a souvenir of an exhibition, but it's really a reference tool," says Jenkner. "It's part of our function to present, preserve and interpret art. Writing catalogues is part of our research and education role. It can help the viewer."

Young viewers are also an important part of the centre's audience. Volunteer guides give tours to about 2,000 schoolchildren each year. They provide orientation sessions in which the students can use hands-on material such as Inuit



Pat Watson, left, Laurene Davis, centre, and Pat Ellis-Laurin are three of the approximately 90 volunteers who run the art centre's Gallery Shop and art rental service.

Photo by David Thomas, PRI

Artist Juan Geuer, left, gallery intern Lisa Fedak and preparator Mark Harwood dismantle "Sigloveinte," a piece from Geuer's exhibition "Guerilla Tactics."

Photo by David Thomas, PRI



artists' tools, says gallery intern Lisa Fedak.

To make the experience even more valuable for the children, she says, "we encourage teachers to take the tour back into the class by giving them in-class activities that relate to it."

Volunteers also donate their time to run the Gallery Shop and art rental service. The shop gives visitors an opportunity to buy quality crafts, books and manufactured items or to rent a work of art on consignment from the artist. Customers can then choose whether to buy it or not.

"Much of the merchandise is from local artists," says Laurene Davis, president of the volunteer committee. "We try to reflect the focus of the centre." ○



Curator Ingrid Jenkner, left, and director Judith Nasby come face to face with the model of the winning entry in the 1988 national

sculpture competition.

Photo by David Thomas, PRI



About 2,000 schoolchildren tour the art centre every year. These students are examining Mowry

Borden's interactive sculpture "Lariat Calais."

Photo courtesy of Macdonald Stewart Art Centre.

Toronto artist wins sculpture competition

A Toronto artist has won the Macdonald Stewart Art Centre's 1988 sculpture competition sponsored by Imperial Tobacco Ltd.

Evan Penny's proposal for a six-foot classically inspired bronze mask "captures the spirit of a youthful longing, countered with a commitment for responsible action," says art centre director Judith Nasby. The sculpture will be placed in the centre's Donald Forster Sculpture Park and unveiled at Alumni Weekend next June.

Nasby says the park has been planned with extreme care. "Each new commission must be positioned sensitively to complement the others using landscape elements to provide a linkage," she says. Eventually, there will be 15 to 20 sculptures in the park. Penny's will be the eighth.

Former U of G Chancellor Pauline McGibbon, who named the winner, announced that Imperial Tobacco will contribute \$15,000 towards another sculpture in 1989. ○

Personnel report

Appointments

Gisele MacNeil of Guelph has joined Medical Services as staff nurse.

Dr. Dawn Larson of Guelph has joined the dean's office, College of Biological Science, as college co-ordinator and instructor for laboratory teaching in cell biology.

Antonette Pellizzari has changed employment from secretary II in the Department of Geography to executive secretary in the dean's office, College of Biological Science. O

Job opportunities

As of *At Guelph* deadline Jan. 6, 1988, the following opportunities were available: Clerk II, Department of Environmental Biology; temporary full-time from mid-January to August 1989. Normal hiring range: \$320.11 to \$346.79.

Research Associate, Department of Pathology; contractually limited to one year. Salary commensurate with qualifications and experience.

Press Operator, Publication and Printing Services; temporary full-time from Jan. 30 for about 10 weeks. Normal hiring range: \$383.17 to \$415.39.

Clerk I, Office of Graduate Studies; temporary full-time until March 23/89. Normal hiring range: \$291.86 to \$317.13 per week.

Secretary I, Department of Fine Art; part-time, half days, 1 to 4:30 p.m. Normal hiring range: \$291.86 to \$317.13 per week (pro-rated).

The following positions were available to on-campus employees only:

Secretary II, Department of Geography. Salary range: \$320.11 minimum; \$369.95 job rate (level 5); \$460.78 maximum.

Library Assistant III, Library, Collection Maintenance. Salary range: \$351.36 minimum; \$405.50 job rate (level 5); \$503.52 maximum.

Secretary I, Office of the Vice-President, Administration. Salary range: \$291.86 minimum; \$338.48 job rate (level 5); \$406.26 maximum.

Administrative Secretary, Department of Fine Art. Salary range: \$351.36 minimum; \$405.50 job rate (level 5); \$503.52 maximum.

Clerk II, Department of Fine Art. Salary range: \$320.11 minimum; \$369.95 job rate (level 5); \$460.78 maximum.

Fire Prevention Officer, Environmental Health and Safety. Probation rate: \$12.36 per hour; after three months \$13.01; after one year \$14.20.

It is the University's policy to give prior consideration to on-campus applicants. To determine the availability of University employment opportunities, contact employment services and training, Level 5, University Centre, or telephone 836-4900. O

Computing Services offers free courses

Computing Services is presenting a series of free seminar courses this semester in co-operation with Communications Services, the library and the Office for Educational Practice.

All seminars run from 10 a.m. to noon in Room 204, Computing Services, which is located behind the Fire Hall, off Trent Lane. Register at the Computing Services help desk weekdays from 8:30 a.m. to 5 p.m. or call Ext. 6568, beginning Jan. 13.

If any group on campus needs a seminar on a particular topic, Computing Services can arrange it. Call Midge Brochet for information at Ext. 3047.

Seminars scheduled for this semester are as follows:

- **Intro to CMS** — Jan. 19
Learn the basics of using the University's mainframe computer, including how to log on to the system, how to edit files and use mainframe services.
- **Intro to CoSy/TCosy** — Jan. 20
Find out how to use Guelph's computer conferencing services, including micro/mainframe file transfer.
- **Intro to SPSSX** — Jan. 23
Get an overview of this popular way to do statistical analysis on the mainframe.
- **SAS BASICS** — two-part seminar, Jan. 24 and 26
Learn about this powerful way to do statistics and database management, using SAS on the mainframe.
- **SAS/GRAPH** — Jan. 30
Find out how to use SAS/GRAPH on the mainframe to create maps, charts and plots on printers and plotters.
- **Overview of Communication Services on Campus** — Feb. 2
Take a look at what's available in electronic communications at the University.
- **PC/SAS** — Feb. 3
Get an overview of the microcomputer version of SAS. To benefit from this seminar, a basic understanding of SAS is required.
- **Intro to NetNorth** — Feb. 6
Gain an understanding of the terminology used to discuss campus electronic communication services. The session includes a MAIL demonstration.
- **Overview of Advanced Features of WP 5.0** — Feb. 14
Learn how to get basic desktop publishing features from WP 5.0.
- **Overview of Database Access** — Feb. 16
Find out what's available on campus to help access information from the library and from off-site databases via on-line and CD-ROM access. O

Personals

For Sale: Left-hand acoustic guitar; woman's black riding jacket, size 12; Dynastar 185-cm Dynastar skis with Solomon 626 bindings; Nordica Tridon woman's ski boots, size 8; woman's down ski jacket and ski pants, size 12; solitaire diamond ring, 1/4 carat, 824-6918 after 6 p.m. VT100s, Volker Craigs, Decwriter LA34, Tony van Roon, Ext. 6407. Lowrey apartment-size piano and bench, seven years old, excellent condition; girl's 12-speed bicycle; water softener, 822-2498 after 5:30 p.m. Renovated three-bedroom brick house, 836-4173 or leave message. 1980 Chevy Malibu Classic, four-door, power steering and brakes, air-conditioning, reliable, 822-4916 anytime.

Wanted: Ride to Canadian ski marathon and back, will share driving and expenses, Ext. 2279 or 824-3174. Daily ride from Kitchener (Pioneer Plaza or Homer Watson Street) to University, will share expenses, Greta, Ext. 2281. Would like to pool cars to commute between West Montrose (Elmira) and the University, flexible working hours, Ext. 6088 or 1-669-1365. Anyone travelling to Zimbabwe in the next three months, please contact Kuzi at Ext. 6189 or 763-5160 after 6 p.m. Two second-hand desks in good condition, 836-8137 evenings.

For Rent: Furnished room for non-smoking male, parking, utilities and laundry, \$275 a month, Robert, Ext. 8350 or 823-8350 evenings. Renovated three-bedroom brick house, new plumbing, wiring, eat-in kitchen with appliances, 1 1/2 baths, deck, main floor laundry, Jaccuzi, parking for four, available immediately, \$980 a month plus utilities, 836-4173 or leave message. Spacious rooms in quiet family home, about three kilometres south of campus, vehicle needed, ideal for studious persons, privacy respected, \$50 a week, 836-6206. Two-bedroom apartment in century stone home beside Exhibition Park, laundry, parking, available March, \$698 per month, references; spacious two-bedroom apartment near University, \$550 per month, 824-1773 evenings. Modern three/four-bedroom house on Grand River between Fergus and Elora, daily bus service to University, available Feb. 1 for six months, 846-9980.

Available: Tutor for core French, Egyptian hieroglyphics and remedial English, 821-2754 evenings. Portraits of family members and pets, drawn or painted, Ext. 8583 or 821-3917 after 5 p.m.

Inside:

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Cover:

25 candles! Carol Taylor, president of College Royal, lights one for U of G's seven-tier, 270-kilogram anniversary cake. See story, page 1, pictures, page 3.

Photo by John Maloróssy/Photographic Services



Alumni
Affairs &
Development

Gala party launches anniversary year

U of G launched a year of 25th anniversary celebrations Jan. 12 amidst a sea of balloons and banners and a huge 270-kilogram birthday cake. And more than 1,300 well-wishers filled Peter Clark Hall for the lunch that followed the official opening ceremonies.

Hundreds of faculty, staff and students contributed to the success of the kickoff celebrations, but perhaps the real stars were the bakers who made the birthday cake, which was created and donated by Food Services.

Executive chef Domenico Ranalli, head cook Henry Kuiper, head bakers Mauricio Lousaunau and Brian Holden and apprentice cooks Tony Debatista and Toni Moretti "built" the seven-layer cake the night before the kickoff ceremony, then came in at 3 a.m. the next morning to ice it. The cake was the centrepiece of the celebrations.

A packed crowd in the University Centre courtyard cheered and applauded and media cameras clicked as the cake was cut. Within an hour, the cake was gone, dispersed in boxes to the hundreds of faculty, staff and students who turned out for the celebration.

Retired CPS dean Earl MacNaughton, chair of the 25th anniversary committee, began the opening ceremony. "We are gathered here today to recognize and celebrate 25 years of remarkable achievement in the building of the University of Guelph," he said.

The platform party included President Brian Segal; former U of G presidents Burt Matthews and Bill Winegard; Board of Governors co-chair Solette Gelberg; Tom McEwan, the first chair of B of G; Guelph Mayor John Counsell; Wellington County Warden John Green; and

MPP Gordon Miller, who represented the ministers of agriculture and food and colleges and universities. Winegard presented Segal with a framed, official greeting from Prime Minister Brian Mulroney.

Faculty, staff and student representatives lit the 25 candles on the cake. They were: Ron Downey, past president of the University of Guelph Alumni Association; Craig Sanderson, president of the Central Student Association; Joseph Woods, president of the Graduate Students Association; Sue Morris, president of the Athletic Association; Ian McMillan, president of the U of G Faculty Association; Mary Ann Robinson, president of the U of G Staff Association; Gary Nadalin, past president of the Professional Staff Association; and Carol Taylor, president of College Royal.

"With this day, our celebration of all that has been achieved at the University of Guelph begins as we commit ourselves to continue and build upon our extraordinary successes into the future," said Segal before he joined Winegard, Matthews, Gelberg and McEwan in cutting the cake.

Judith Colbert, author of the 25th anniversary book, *The Achievement and Challenge*, presented a copy of the book to Segal. It is now on sale in the bookstore.

Set up behind the platform party and also in Peter Clark Hall was a mobile display of photographs depicting the history of the University. Assembled by the instructional support group of the Office of Educational Practice, the display will be on view in the library. O

(See picture album, page 3.)



Carole Giangrande



Joseph Collins



Jim Bradley

Prominent citizens to debate sustainable development

Our common future

by Andrea Mudry Fawcett

Controversy and discussion will illuminate major issues facing our planet in a six-part seminar series beginning Feb. 6 at The Arboretum.

Toxic pollution, waste disposal and unnatural climatic changes are just some of the topics to be discussed at "Our Common Future," a free series sponsored by the University and the City of Guelph. It will bring together environmental activists, politicians, business people, industrialists, economists and local citizens to debate the viability of sustainable development as an answer to our problems.

Prof. Tony Fuller, University School of Rural Planning and Development, who is co-ordinating the series, says the United Nations report *Our Common Future*, commonly known as the Brundtland report, urges people to practise and promote sustainable development by combining the economic needs of development and the ecological needs of earth care.

"This is a more realistic response to our problems than simply calling for a halt of industrial development," says Fuller. "But does this combining of needs mean compromise or contradiction?"

The seminars should clarify the meaning of sustainable development, he says. "Are the views of environmentalists and industrialists conflicting? What more do we need to know? And, most important, what can we each contribute globally, nationally and locally as individuals?"

The audience is invited to join the discussions as an integral part of this series. The seminars will run Feb. 6, 15 and 22 and March 1 and 8 at The Arboretum Centre from 7:30 to 9:30 p.m. There will also be a noon session March 1 in Room 103, University Centre.

President Brian Segal opens the series Feb. 6 by addressing the University's responsibilities in this debate. He will be followed by Joseph Collins, co-author with Francis Moore Lappe of *Food First: Beyond the Myths of Scarcity* and director of the Institute for Food Development Policy in San Francisco, who will discuss "The Myths of Hunger: Towards a Politics of Hope."

On Feb. 15, a lawyer, a native Canadian and an eco-feminist will provide three views of sustainable development. Ralph Osterwald is an environmental lawyer with the Canadian Permanent Mission to the UN and an adviser to

Joe Clark, minister of foreign affairs. Thom Alcoze is a professor of native studies at Laurentian University. Writer and editor Jennifer Sells is a graduate student in Canadian studies at Trent University.

The Feb. 22 session will present two very different views on the planning and management challenges of sustainable development. Speakers are John Friedmann, a professor at the Graduate School of Architecture and Urban Planning at the University of California at Los Angeles, who is a champion of radical alternative styles in rural and urban planning, and Douglas Hoffman, local guru on urban and regional planning in Ontario.

The gloves come off over the issue of agriculture and sustainable development at the noon session March 1. Prof. Vernon Thomas, Zoology; Prof. Glenn Fox, Agricultural Economics and Business; and journalist Carole Giangrande, author of *Down to Earth: The Crisis in Canadian Farming*, will debate the relationship between economics and ethics. How far does agriculture have to go to become sustainable? What ethical questions may be missed in the process?

At the March 1 evening session, the debate becomes political when Ontario Environment Minister Jim Bradley meets with John Jackson, founder of the Citizen's Network on Waste Management and author of *Chemical Nightmare: The Unnecessary Legacy of Toxic Wastes*, and Pollution Probe's Jeanine Ferretti.

The final seminar March 8 focuses on the meaning of sustainable development for Guelph's citizens, industries and businesses. Featured are Graham Knowles, president of Hart Chemical Ltd., Guelph; Carole Milligan, a community activist involved in health, environmental and women's issues; Dan Hoornweg, waste management co-ordinator for the City of Guelph; and local teacher Susan Turner.

As a contribution to the University's 25th anniversary celebrations, the University School of Rural Planning and Development has given leadership, funding and management to the seminar series.

Other sponsors are the Ontario Public Interest Research Group (OPIRG), the Department of Land Resource Science, Developmental Education, The Arboretum and The Guelph International Resource Centre. O

School of Human Biology seminar to focus on organ transplants

Relevant and often controversial issues surrounding organ transplants will be aired at the School of Human Biology's 19th annual student symposium Jan. 21.

Dr. Michael Robinette, chair of the MORE program at Toronto General Hospital, will discuss reasons for the imbalance between the demand and supply for organs. Dr. Alan Menkis, assistant professor of surgery, division of cardiovascular and thoracic surgery, University of Western Ontario, will speak on new developments in heart and lung transplantation.

Dr. Harold Burton of the faculty of health sciences at the State University of New York at Buffalo will discuss blood flow characteristics and microvessel function in transplanted skeletal muscle.

Other participants will include Chris Freitag,

transplant co-ordinator with the MORE program, who will focus on organ donation and recipient suitability; Elizabeth and Mary Anne Johnston, kidney donor and recipient; and Kitchener chaplain Kenneth Beal, who will discuss the donor family's perspective and group therapy for organ donation.

The public is invited to attend the symposium, which is entitled "The Cutting Edge: Revolutions in Organ Transplants," from 9 a.m. to 5 p.m. in Room 105 of the MacNaughton building. Tickets are \$10, which includes lunch and a wine and cheese reception, or \$18, which includes a dinner/dance and awards presentation at the Cullen Club in the evening. Tickets are available at the University Centre box office.

For more information, call Gilian MacPherson, Ext. 3024. O

Something old and something new . . .

Editor's Note: This week's *At Guelph* brings you the first of two new regular features.

- "At Your Service" is a column to help the University community understand the workings of Physical Resources and how to receive the best possible service from the department, which is responsible for central utilities, construction, engineering, grounds, housekeeping,

security on campus.

- "Remember When . . ." is a series that will run monthly throughout our 25th anniversary year, featuring interviews with retirees and former employees. The column will focus on the candid and lighter side of the University's history and is planned to complement our 25th anniversary book, *The Achievement and Challenge*, by Judith Colbert. O

Letters to the editor

Case for OAC name change

In the Dec. 14 issue of *At Guelph*, President Brian Segal was interviewed and questioned about one of the proposals of the Task Force on Rural Resources dealing with renaming OAC the college of agriculture and resource management.

Segal is to be congratulated for his strong commitment to OAC and to the recognition that the college remains a vital and important component of the University. It is for this reason that the task force recommended a reconstituted focus for resources management within OAC.

We do not consider the recommendations to be faddish or stylish, because the questions at stake for the University are fundamental. Tradition and history are important as a base to build from. Tradition for the sake of tradition can be stultifying and stagnant if it inhibits thinking and actions that prepare society for the future.

The tradition of OAC has been in the so-called area of production agriculture. The issue today is not how to produce more food but how to feed hungry people. The issue today is not the loss of farmsteads but the discovery of ways and means to preserve open space in a rapidly urbanizing region.

We must recognize that agriculture is only one of the many competing, and perhaps conflicting, uses of land. If we recognize this as being the case, then the new resource programs that stress multidisciplinary work in human settlement and resources management are essential to integrate biophysical, social, cultural, economic, legislative and political factors.

If we agree that new programs are essential, then we can elect to inform the students and faculty about them in several ways.

In the view of the task force, the tradition of production agriculture was so ingrained in OAC that surmounting this major psychological reality would be difficult without a major program and name change. The title of "resources management" was proposed to clearly symbolize the broader scope that the college should encompass.

The name change is also an honest articulation of the constituency OAC

already has. Engineering, Rural Extension Studies, the School of Landscape Architecture and the resource management portions of Land Resource Science are clearly involved with land stewardship, not production issues. This combined student body makes up 22 per cent of OAC. OAC's resource management programs are not adequately presented to the public and are largely unknown to many within the University community. This is not an acceptable state.

The task force has presented its report, and the time for major decisions on resources management and environmental stewardship at the University and within the college is at hand. It is encouraging to hear the support the president has given to OAC. And it is hoped that the forthcoming decisions by the Board of Governors, the president, Senate and the Committee on University Planning will continue to recognize the University's unique strengths in the resources and environmental fields, and will support programs and structures that provide a strong basis for growth in this vital area.

Prof. Walter Kehm,
Chair, Task Force on Rural Resources.

Poor showing in status of women update

I was pleased to see *At Guelph's* Jan. 11 reprint of the Council of Ontario Universities (COU) *Briefing Notes* on the survey COU recently conducted on the progress of status of women policies as they are being implemented at universities across the province.

U of G didn't cut a very wide swath (if one can risk an agriculture metaphor), at least in the mind of the person who wrote the report. I assume the "management development seminars" referred to in the report are those commendable efforts Personnel puts together every semester on such punchy topics as resume writing, customer/client relationships and "assertiveness training for women." The "targeting" must come from the tag line at the end of "who may attend" — "support staff interested in furthering..." Some target.

I was heartened to see that some institutions, such as York University and the University of Windsor, are secure enough to admit they might have policies or positions that will be filled "ASAP." It seems rather painful, in light of the rest of our thin showing, that Guelph advertises itself to the province as having an employment equity co-ordinator while here at home we must be content with a search committee.

Mary Ann Robinson,
Publications and Printing.

No time to help another

I have just experienced one of the more upsetting incidents of my life and felt that it was worthy of comment.

I have been at U of G for more than eight years and use Guelph Transit to come to work. On Jan. 5, a student passenger with a medical problem fainted and fell to the floor of the bus as it turned the corner at College Avenue and Gordon Street. No one offered her any help. One passenger was more concerned with the Libya-U.S. situation, and others backed off and remained uninvolved. I got her off the bus and helped her to Medical Services.

She fainted again at the crosswalk near Creelman Hall and dragged me down with her. People sat in their cars, and faculty and staff kept walking. I yelled for help and a student I know rushed over and helped me to get her to Medical Services.

Does this cold, unconcerned, indifferent behavior speak for the attitude of our University community? One would expect a little more integrity and humanity from the so-called intellectuals. Or has this campus developed the apathy that exists in larger centres?

I am not seeking martyrdom for the assistance I offered, nor do I expect this letter to shake up the earth. But these incidents matter, and if we can't take the time to help a fellow human being in need in our own community, then how can we expect things to change elsewhere? It's about time people reassessed their values and their behavior!

Gloria Troyer,
Library.

Bang-on research

The Jan. 4 issue of *At Guelph* carried a letter by Prof. John Simpson, Physics, that dealt with research.

Although I do not agree with his specific points relating to the profit potential of this hormone research, his fundamental viewpoint concerning research is bang-on.

Unless an immediate financial return can be demonstrated for any research project, the research should not be funded or, if already in progress, should be axed.

It is refreshing to hear from a professor such a practical, clear view of research funding policy. It is to be hoped that other professors will rally behind Simpson and will encourage future implementation of a "no-profit, no-funding" policy such as the one advocated in his letter.

David Read,
CPS '89.

Simpson challenged to milk visit

The comments on milk research in *At Guelph* Dec. 14 and the subsequent letter Jan. 4 reveal the diversity of thought on the usefulness of research in commodities such as milk. The matter is clear to me.

First, the goal of production research in agriculture is to find more efficient ways of using the resources of agriculture to service society. The goal has been accomplished largely by reducing the inputs required for each unit of output. At times, this has resulted in more output per unit (e.g. more milk per cow, more corn per hectare), but this is an indirect outcome and not the direct goal.

Second, research in production agriculture has had phenomenal success — a success that has led to a complete restructuring of society. The process is ongoing.

The major effect of development in production agriculture has been to release people from the full-time backbreaking task of food production and to permit them to experience a fuller life both in food production and in other pursuits. This is certainly true of Canadians, who on average spend about 18 per cent of their economic activity producing food.

To imply that the support for production research should be linked to marketing mechanics indicates failure to recognize the basic way in which production research makes its contribution. To further imply that "punitive" measures should be taken against some commodities because of their approach to marketing glaringly exposes the naivete that can exist when people fail to examine an issue in its overall context. Research should never be viewed in a

provincial or even in a national context. The current local state of market regulations is irrelevant to the issue.

I challenge Dr. Simpson to rise to the true level of scholarship demanded by the very historical nature of our faculty responsibilities. We should all strive to ensure that our utterings are on an intellectual level that shows some depth of thought, understanding and insight into the issues involved.

I extend an invitation to Dr. Simpson to visit the Department of Animal and Poultry Science to review the production research under way, and to discuss the philosophical basis of our research with our faculty.

Prof. Gordon Bowman,
Animal and Poultry Science.

Begging the milk research question

Prof. John Simpson's letter to the editor Jan. 4 on milk research reminds your readers that with a milk surplus, or at least a potential for a milk surplus, research on somatotrophin begs the question about the need for such research.

The decision to dump milk from research cows is a reaction to a public concern and is not due to any potential health risks. In any case, the decision to not put the milk to human use is a research cost that society should bear.

The reason for doing this research is the need to discover and explain an exciting new technology and to keep our agriculture competitive. Can you imagine American producers with a 20-per-cent advantage over Ontario producers? You can be sure the technology will be used if it is accepted elsewhere.

I suspect, as well, that Prof. Simpson's research in physics is well beyond current physical needs (his and ours).

George Jones,
Fergus.

At Guelph welcomes contributions from members of the University community.

Letters to the editor, faculty, staff and student activities, articles for "Forum" — the editorial section — and speeches are welcome. If you know someone who would make a good subject for a human interest article for the "Focus" column, give us a call.

Letters and editorials should be typed, double spaced and signed by the author. Each will be verified by a phone call. The executive editor reserves the right to select, edit and position all copy.

If you have ideas on how to make *At Guelph* a more informed and involved University community publication, call or write Public Relations and Information, Level 4, University Centre, Ext. 3864. O

At Guelph

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Views and opinions contained herein do not necessarily reflect official University policy. Letters to the editor, opinions, news items, speeches, faculty and staff activities, and other submissions are welcome. Deadline is seven days before date of issue unless otherwise specified.

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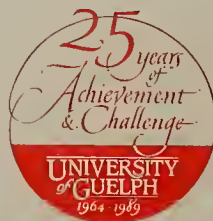
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Macdonald Stewart Art Centre presents exhibition by Fine Art graduates



As part of the University's 25th anniversary celebrations, the Macdonald Stewart Art Centre will present an exhibition Jan. 19 to Feb. 26 of works in various media by 31 artists who graduated from the Department of Fine Art between the years 1968 and 1988.

President Brian Segal will attend the exhibition's opening reception Jan. 19 from 4 to 6 p.m.

A committee of Fine Art faculty members, chaired by Prof. Tom Tritschler, selected the artists who were invited to participate. Organized by art centre staff, the exhibition includes works from as far away as Halifax and Vancouver, in addition to many by artists who continue to live and work in the Guelph area.

The artists represented are: Victoria Alexander, Alan Barkley, John Brown, Don Carr, Teri Chmilar, Nicole Collins, Kathryn Dain, Leslie Drysdale, Jane Eccles, Ron Eccles, Lisa Fedak, Alan Glickman, Mark Grenville, Lilian Grubich, Paul Hess, Barry Hodgson, Nora Hutchinson, Rob Kirley, Michael Leblanc, Terry Legault, Barry McCarthy, P.S. Moore, Brian Musson, Stu Oxley, Diana Pakkala, Fred Pointer, David Reynolds, Ann Roberts, Elizabeth Roy and Jeff Spalding.

Prof. Ron Shuebrook, chair of the Department of Fine Art, will give a public lecture on his work Jan. 22 at 3 p.m. at the art centre. Also in conjunction with the exhibition, curator Ingrid Jenken will give a talk about the exhibition Jan. 25 at 2 p.m. Video and performance artist Nora Hutchinson will screen and discuss her work Feb. 22 from 2 to 3 p.m. O



Celebrating the young and the old that is U of G



Clockwise from top right: President Brian Segal, Tom McEwan, Solette Gelberg, Bill Winegard and Burt Matthews cut the anniversary cake; retirees and long-time friends of U of G are among the first to get a piece of cake; staff view the mobile anniversary exhibit; members of the University community gather in Peter Clark Hall for lunch; executive chef Domenico Ranalli is all smiles as Segal says the icing passes the taste test; Earl MacNaughton, Segal and Mayor John Counsell unfurl the anniversary flag at City Hall.

Photos by Jack Harrison, Photographic Services, and David Thomas, PRI





Prof. Peter Egelstaff was named the University's "Researcher of Distinction" at a recent ceremony at the President's House. Pictured here, from left, are Egelstaff's grandson, Julian; son,

John; wife, Joy; daughter, Katherine McEwen; son-in-law, Craig McEwen; and Egelstaff.

Photo by John Majorosky, Photographic Services

Researcher of distinction

by Owen Roberts,
Office of Research

Prof. Peter Egelstaff, Department of Physics, has been named U of G's first "Researcher of Distinction."

The award was made to commemorate the University's 25th anniversary, recognizing the significant role scientists have played in the development of the institution.

"Prof. Egelstaff is a role model for our young researchers on campus to follow," says President Brian Segal, who, along with Dean of Research Larry Milligan, hosted a dinner in honor of Egelstaff and his family at the President's House.

Egelstaff, who was recommended for the citation by the University's Research Board, is a pioneer in neutron scattering — the practice of bombarding selected material with a beam of neutrons to study the distinctive patterns they make when they bounce off. The process itself does negligible damage to the subject matter, and the patterns reveal information about the atomic and molecular structure and dynamics of the material that would otherwise be impossible to obtain.

Egelstaff's career began in Harwell in 1947, with early measurements of slow neutron cross sections for reactor materials, which were used in the calculation of reaction rates in thermal reactors. In 1954, he developed new techniques in neutron scattering, especially the liquid hydrogen cold neutron source technique.

Three years later, he became leader of a group at Atomic Energy of Canada Ltd. in Chalk River, which built the first phased rotor neutron spectrometer and made the first comprehensive measurements of the thermal neutron scattering law of reactor moderator material. This research was part of the refinement of the highly respected CANDU reactor.

He returned to Harwell in 1959, but his team continued the program until 1966, and he visited Chalk River each year that the program

continued. The research he did at both locations resulted in experimental techniques in neutron scattering that have been copied and used for the past 20 years in many laboratories worldwide.

After returning to Harwell, Egelstaff began studying the atomic behavior of liquids by neutron scattering, pioneering techniques such as inelastic neutron scattering to investigate the dynamics of simple liquids and, with collaborators, revising and improving methods of studying the structure of liquid metals and alloys. His work is credited with enlarging the versatility of neutron scattering in other areas, especially the field of physical chemistry.

Egelstaff came to Guelph in 1970 to become chair of the Department of Physics. While leading the department through five formative years, he maintained his research interest, using an electron linear accelerator at the University of Toronto as a neutron source.

At the same time, he helped refine the precision of neutron diffraction measurements on fluids through the development of a new instrument at Chalk River's NRU reactor. This work was complemented by a collaborative program at the Institut Laue-Langevin in Grenoble, which still continues.

Most recently, Egelstaff and his collaborators have developed a program of computer simulations of simple fluids to complement their experimental program of static and dynamic structure factor measurements. Egelstaff is also involved in an effort to upgrade the reactor at McMaster University, which would offer local researchers a readily available location for neutron scattering research.

He is a past recipient of the Spiers Memorial Medal from the Chemical Society of London and was elected a Fellow of the Royal Society of Canada in 1980. The Canadian Association of Physicists, of which he was president in 1987/88, honored him with the Medal for Achievement in Physics in 1983. ○

Research awards for grad students

The University School of Rural Planning and Development (USRPD) has available \$45,000 for four to six U of G graduate students for research in international rural development.

The awards will range between \$7,000 and \$12,000 each, and no individual award will exceed \$15,000.

The awards are to support field research in a Third World country that fits within the area of international rural planning and development.

There are no application forms. Candidates must submit a proposal by March 17 that demonstrates links among disciplines, the natural and social sciences, the policy, planning and management issues, and decision-making processes in the development context under study.

An interdisciplinary committee will evaluate proposals for clarity of presentation, the rigor with which the problem statement, conceptual framework and methodology are developed, and the details of how research plans will be implemented.

The committee will look for a focus for the work that is oriented to Third World needs, a solid theoretical base, a conceptual and analytical framework and methodology suited to the

problem, and a command of the methodologies that might be applied.

The proposal must indicate the country and region where the research is to be undertaken, and must contain a budget, timetable, and the proposed supervisory committee and institutional arrangements in the country where the work is to be done.

The award will cover expenses directly associated with the field program, and expenses must be accounted for. The money may be used for research-related support prior to departure and after return, approved purchase of equipment, translation, purchase of research-related supplies, return travel to the country, communication costs and other approved expenses as specified in the proposed budget. Any research equipment purchased must be returned to USRPD.

USRPD reserves the right to reallocate part or all of the award if a student simultaneously receives a large scholarship or research award from other sources.

For more information, call Prof. David Douglas, director of USRPD, at Ext. 3154. ○

Pollution research nets environment awards

by Owen Roberts,
Office of Research

A U of G scientist and a former graduate student each received Ontario Ministry of the Environment "Excellence In Research" awards at the ministry's ninth Technology Transfer Conference in Toronto recently.

Prof. Tony Hayes, Department of Pathology, and PhD graduate John Gunn, Department of Zoology, were recognized with awards and citations from the provincial environment minister, Jim Bradley. The awards are presented annually for outstanding ministry-funded environmental research.

Hayes and his research team — research assistants Trudy Kocal and Bette-Ann Quinn, PhD student Gordon Kirby and DVM student Cathy Thorn — are continuing research started by Ian Smith of Prof. Hugh Ferguson's Fish Pathology Laboratory, also in the Department of Pathology.

For the past two years, Hayes and his team have been studying the relationship between pollution in the Hamilton area of Lake Ontario and the biochemical basis for naturally occurring cancerous skin and liver tumors in two species of fish there, white suckers and brown bullheads (catfish).

About five to 10 per cent of these two species in industrially polluted regions such as the Hamilton harbor have liver tumors that do not occur in fish in less contaminated areas.

Because the suckers and bullheads feed primarily from the lake bottom, it has been assumed that pollutants concentrated there were causing cancers in these fish. But Hayes has found that other factors, especially parasitic diseases in the affected fish, increase the cancer-causing effects of the pollutants.

He is studying "resistance enzymes" that protect fish and some other species against certain carcinogens. At an early age, he says, the fish have a great deal of natural resistance. But for some reason — perhaps because of the parasitic diseases or other stresses induced by pollutants — it appears that this resistance in some cells breaks down, allowing the carcinogens to become more harmful.

"The implications are that the environmental risks to health are complex and may be more significant as age or other diseases progress," Hayes says. "Susceptibility and resistance have a biochemical basis that we're in the process of unravelling."

Hayes is now able to compare the resistance of various species, including fish, terrestrial animals and humans. He believes it may actually be increased by some pollutants. Low levels of some chemicals such as PCB may help fish and mammals to excrete carcinogens by beefing up their natural resistance.

"It's like ultraviolet radiation from the sun," he says. "A little is helpful — it can induce resistance to sunburn. But a lot is harmful and may cause skin damage and cancer. The same goes for some of the chemicals we're dealing with. We need to understand why resistance breaks down as we get older and more cancer prone."

The other award winner, former graduate student Gunn, was recognized for his PhD study about the effects of the sudden onslaught of springtime melt water on lake char (lake trout).

Entitled "The Role of Episodic Acidification in the Extinction of Lake Char Populations," Gunn's thesis concluded that the influence of snow melt acid shock on the reproduction of the species was not as severe as previously believed. This was based on his findings that the duration of the melt was relatively short (minimizing exposure time to the fish) and that the low density of cold run-off water prevented it from penetrating to depths where the fish normally dwell.

Gunn is now co-ordinator of the Ontario Ministry of Natural Resources acidification program on fish, and offers expertise in experimental design for management techniques to biologists.

This was the first year the awards program has been expanded to recognize exemplary environmental research by graduate students. "I hope that our recognition of graduate research will encourage more students to channel their talents into environmental research," said Environment Minister Bradley. ○

At your service

Repairs

Physical Resources personnel try to make sure systems function properly on campus. But things do break down. For repairs, you should call Maintenance at Ext. 3854.

Maintenance is responsible for all aspects of the operation and upkeep of campus buildings — comfort control (heating and cooling), the fabric of the buildings (walls, windows, roofs), delivery of utilities, elevators and all the other structural, mechanical and electrical components of University property.

In the event of a breakdown, the best thing to do is to call Ext. 3854, says Maintenance head David Taggart. During office hours, there are staff on duty to field calls; they will contact the building mechanic or appropriate tradeshop to deal with the problem.

During the lunch hour and after hours, calls to Maintenance go to the dispatcher in the University Police office. For emergencies, the dispatcher can contact tradespeople who are on call during the lunch hour, or at home during the night.

All work has to be prioritized, though. "We have to set our priorities based on the total picture of the University," says Taggart. "We do our best to meet departmental needs as we are made aware of them."

If there seem to be delays in getting non-emergency repairs done, it may be because of problems getting parts, or it may be because Maintenance personnel are kept very busy. The work backlog in individual tradeshops can vary from a day to several weeks, depending on the flow of requests, type of work and time of year.

The building mechanics are usually able to respond to problems within hours, but the carpentry shop backlog averages about four weeks.

Maintenance gets about 35,000 requests a year for repairs, and 66 per cent of personnel time is spent on customer demand maintenance. Late August and early September are especially busy, Taggart says.

Preventive maintenance

To keep the University running smoothly, Maintenance has an extensive preventive maintenance program to keep problems from occurring. This program is a major factor in preventing equipment breakdown and minimizing service interruptions.

Maintenance uses special software to keep track of systems that require periodic servicing. The computer prints work orders every week so that building mechanics and tradeshop personnel know what equipment will need work.

From keeping fans properly greased to replacing valves on steam pipes, Maintenance personnel are kept busy with about 20,000 preventive maintenance tasks a year. They try to do a lot of their work when the University isn't so busy — late December and summer.

"It's nicer to schedule shutdown time rather than have it happen as an emergency," says Taggart. ○



Plumber Phil Atkinson of the Maintenance Department tackles a stubborn drain.

Photo by David Thomas, PRI

Remember when . . .

DAVID

SCOTT: The days of mud and glory

by David Thomas

When David Scott thinks back to the early days of the University, he remembers how rewarding it was to be part of the new institution, even if it was hectic at times.

As the University's first director of Physical Resources (1965 to 1968), Scott presided over a period of vast expansion. During his tenure, major buildings such as Lambton Hall, Arts (now MacKinnon), McLaughlin, Physical Sciences (now MacNaughton), Animal and Poultry Science, Crop Science and the South Residences were completed.

Scott says there was a lot of work to be done in the early years. "For a couple of years, in '65 and '66, the campus was in a state of absolute chaos. I really felt sorry for the students of those days, who spent their last two years of university up to their hips in mud. We were working so hard that, on occasion, we would actually cut a building off altogether and have to rush down and put up a temporary bridge so that people could get out."

Buildings couldn't be put up haphazardly, though. Scott had to put in place a planning system so that future development of the University would follow a desired pattern rather than just bow to the whims of the present. He and his colleagues developed a master plan for campus growth and implemented processes, such as the academic brief and building committee, for planning new structures.

The overall scheme for the look of the campus was quite simple. "(We) developed the fundamental grid of the campus, with the main north-south spine, two east-west spines and a ring road. It's as simple as that. You can draw it with three lines."

As for the buildings, Scott and his colleagues tried to develop a look that showed both continuity and diversity. "We wanted to establish a language of design on campus. So we built or benchmarked buildings, initially Arts and the library, to establish a kind of architectural vernacular. All the other architects hired were not instructed in any way to copy that style, but simply to respect what we were trying to do here in terms of urban development."

"What we were really trying to do (was to) create an urban setting which had diversity but at the same time had elements of continuity."

The sense of diversity was helped by the fact that there were many old buildings already on campus, says Scott, who now runs his own consulting firm in Guelph.

"I think old and new (can be) both a challenge and an opportunity and a frustration all at the same time," he says. "We tried to keep as many old buildings as could be justified, and (we



David Scott today.

Photo by David Thomas, PRI

were) particularly anxious to keep the old buildings around the original campus green, the old library and so on. We were successful, but believe me, there was an awful lot of pressure to tear those down."

Scott says the planning processes he implemented still work well, but he does have one disappointment — that the outdoor quadrangle between the University Centre and the library has never developed as it was intended.

"In my personal view, it's unfortunate that Zavitz Hall still sits in the middle of what was supposed to be a quadrangle. I know there's probably a dispute about taking down old buildings, but in my view, Zavitz Hall is just that — it's an old building. It doesn't have any particular merit."

"I realize with space limitations it's sometimes difficult to take down old buildings, but until Zavitz Hall goes, the concept of a central outdoor focal point of the campus will never be achieved."

But overall, Scott is proud of the campus. "By the time I left, the basics were in place. The campus was clearly going to develop as we had conceived it. I still serve on the design review board, and I have nothing but admiration for the people who have carried the plan through." ○

More women taking courses, seeking career alternatives

U of G's tuition waiver program is used much more frequently by female employees than males, according to a study by Vic Reimer, manager of employee relations, Personnel, and Mark Waldron, director of the University School of Continuing Education.

Some 37 per cent of the female employees eligible for tuition waiver from 1981 to 1986 used the program, compared to 22 per cent of the males, the study found.

Although a wide range of credit and non-credit courses are available under the University's liberal tuition waiver program, says Reimer, employees of both sexes tended to select work-related courses more frequently (64 per cent) than non-work-related courses (36 per cent). (See accompanying chart.) But men tended more frequently to select immediate career courses, whereas women more often selected alternative career courses.

"This indicates that we have a large number of frustrated women who are looking for other career opportunities and are availing themselves of courses to help find them," says Reimer.

U of G has offered tuition waiver since 1980, when it was negotiated as part of the compensation package for that settlement year. Administered by the Personnel Department, the waiver covers the cost of tuition, but not the cost of textbooks and laboratory fees, for regular full-time employees who enrol in credit or non-credit courses offered by the University.

Eligible employees may take up to three credit courses per semester and up to four non-credit courses per year. New employees must wait one year to become eligible for tuition waiver courses.

Reimer says Guelph is the first university in Canada to study the adult employee learners using its tuition waiver program. Most universities offer tuition waiver, he says, but few actually know to what extent they're benefiting from the program and who, in fact, is using it.

The Guelph study found that the typical tuition waiver learner was female, married, 30 to 39 years of age, holding a semi-professional, secretarial or technical position, with one to

four years of service and earning between \$20,000 and \$27,999 a year (in 1986 dollars).

In comparing users, Reimer and Waldron found that younger employees were more likely to enrol than older employees; unmarried employees tended to participate more than married ones; shorter-service employees were more likely to participate than longer-service employees; and white-collar workers were markedly more likely to take courses than blue-collar workers.

They did not, however, find any significant difference in the rate of participation by income level. This contradicts the traditional view that employees at higher income levels are much more likely to take advantage of learning opportunities, says Reimer.

"Our finding indicates that by removing the economic cost barrier to education through tuition waiver, we have encouraged more adult employee learners who traditionally have not availed themselves of educational opportunities. Removing the cost barrier has enabled us to break away from the traditional view of learning."

Because the cost barrier is gone, says Reimer, the tuition waiver program offers employees an excellent opportunity for career development on campus, particularly among women who are looking for more self-fulfilling employment. It also provides people with a creative outlet, opens up opportunities in fields unrelated to their jobs and gives them a chance to develop interests that can be carried on into their retirement years.

Although some supervisors believe tuition waiver courses are too time-consuming and take people away from their work, there is no indication that the program has been misused or abused, Reimer says.

The results of the study should be useful to adult educators on campus, he says. "It will help them understand the adult employee learner a little more clearly and will help them in their teaching. We are going to have more and more adult learners on campus, and it's important to know who they are." ○

FREQUENCY DISTRIBUTION OF USERS OF TUITION WAIVER DURING A FIVE-YEAR PERIOD (1981-1986) BY VARIOUS SOCIAL DEMOGRAPHIC CHARACTERISTICS

Characteristics	Eligibles		Users	
	N	% of eligibles	N	% of users
Sex: Male	1145	253	22%	36%
Female	1197	447	37	64
Age: 29 or under	233	187	80%	27%
30 - 39	713	286	40	41
40 - 49	605	143	24	20
50 - 59	525	70	13	10
60 or over	266	14	5	2
Marital Status: Married	1773	490	28%	70%
Single	471	174	37	25
Sp/Divorced	63	29	46	4
Widowed	35	7	20	1
Length of Service: 1 to 4 years	511	289	57%	41%
5 to 9	584	220	38	31
10 to 14	549	130	24	19
15 or more	698	61	9	8
Occupational Group: Professional	457	158	35%	21%
Executive	118	41	35	6
Supervisory	299	100	33	14
UGSA	910	348	37	49
CUPE	153	47	10	7
UGPSFA	53	3	6	5
CUOE	18	2	11	4
CGA	14	1	7	1
Income Level: \$19,999 or under	811	217	27%	41%
\$20,000 - 27,999	888	288	32	41
\$28,000 - 39,999	453	137	30	20
\$40,000 or over	190	58	31	8
Total eligibles (N = 2,342)				
Total users (N = 700)				



Way back then: David Scott, the first director of Physical Resources, centre, looks over the University's long-range development plan with Tom McEwan, then chair of the Board of

Governors, left, and then president J.D. MacLachlan.

Photo courtesy of David Scott

New on the shelves

Campus Trends, 1988 is the fifth in a series of annual surveys by the American Council on Education providing information on administrative and academic changes at American colleges and universities. This year's report gives special attention to enrolment and the situation of faculty in light of significant shortages predicted for the next decade. The publication can be ordered from the Division of Policy Analysis and Research, American Council on Education, 1 Dupont Circle, Washington, D.C. 20036. The cost is \$5 (U.S.) for members and \$8 (U.S.) for non-members. Only prepaid orders will be accepted.

Cultural diversity poses a new challenge to

the school. Does it entail a major revision of the curriculum? What training should educators receive to meet the new requirements? The Institute québécois de la recherche sur la culture has published *Pluralisme et école* under the guidance of Fernand Ouellet to answer these questions and others. The book is divided into five sections, dealing with the ideological context, past initiatives, challenges and responses, and the basics of a new curriculum. The publication is available in bookstores or by sending a cheque or money order for \$30 to Institut québécois de la recherche sur la culture, 14 Haldimand St., Québec, P.Q. G1R 4N4. ○

Briefly

B of G seeks student nominees

The Board of Governors is calling for nominations for two student representatives to serve from July 1, 1989, to June 30, 1990. Any full-time undergraduate or graduate student at U of G is eligible for nomination. Nomination forms are available from the Office of the University Secretariat, Level 4, University Centre, Ext. 6759, and from the offices of college deans. Completed forms must be received by the Secretariat's Office by Feb. 3 at 4 p.m. The vote will be held Feb. 21 in the University Centre courtyard, in conjunction with the Senate student elections.

Humanities association hosts talk

The Guelph chapter of the Humanities Association of Canada presents an illustrated lecture with Prof. Jim Taylor, School of Landscape Architecture, discussing "Landscape Architecture: Art or Science?" Jan. 27 at 8 p.m. in Room 114, MacKinnon building. Admission is free for association members and students, \$5 general.

Trip to the Grand

The Department of Drama is organizing a bus trip to the Grand Theatre in London to see Judith Thompson's play *The Crackwalker* Jan. 20. Cost of the ticket and return bus is \$16. Bus departure is 5:45 p.m. The production is designed by Guelph designer and drama student Dennis Horn. Audiences are warned that the play contains strong language and controversial subject matter. To reserve a place, call Ext. 3147.

Focus on fiction

Prof. James Acheson of the University of Canterbury, New Zealand, is a guest of the Department of English Language and Literature this week and will give two lectures Jan. 19. At 11 a.m., he will speak on John Fowles's *French Lieutenant's Woman* in Room 225, MacKinnon building. At 4 p.m., he will discuss "Fiction of the 20s" in Room 238, MacKinnon building.

Wireless modems on trial

Communications Services has installed a pair of wireless modems for evaluation. These will enable users to access the ROLM data switch and data services such as CoSy, CMS and the library from most locations on campus without being connected to a ROLM datapath. A modem is available for evaluation and can be obtained by calling Bob Creedy at Ext. 2589.

GSF names artistic director

The Edward Johnson Music Foundation has appointed William Lord artistic director of the Guelph Spring Festival. He assumed the position Jan. 16 to begin work on the 1990 festival season. For the past 10 years, Lord has been theatre officer for the Ontario Arts Council. During the 1970s, he was on the faculty of York University, serving as chair of the theatre department from 1975 to 1978. Lord has also been company manager and resident designer for the Canadian Opera Company and guest designer with the National Theatre of Belgium. Currently, he is co-producing a feature film, working on the development of a television special and series, and designing productions for Theatre Plus and the Muskoka Festival. His association with GSF began 21 years ago when he designed the Edward Johnson exhibit for the festival's first season. Since then, he has designed several opera productions for the festival.

Summer job fair

The annual summer job fair for students, sponsored by Career Services, will be held Jan. 26 from 10 a.m. to 3:30 p.m. in the University Centre courtyard. More than 40 employers will be on hand to discuss summer job opportunities available for students in all academic fields. For more information, call Ext. 2213.

Improve your math

A mathematics proficiency course for people with a weak math background is being sponsored by the Department of Mathematics and Statistics, the Counselling and Student Resource Centre, the School of Continuing Education and the Wellington County Board of Education. It will run for 10 Wednesdays from 6 to 9 p.m., beginning Jan. 25. Cost is \$50. A diagnostic test is needed for entry into the program. For more information or to register, contact the Connection Desk, Level 3, University Centre, Ext. 6200.

The write stuff

The Development Education Program and *The Ontario* are offering a hands-on workshop on "Writing for Development" Jan. 19 from 1 to 4 p.m. in Room 103, University Centre. Workshop leaders are Wayne Ellwood, editor of the *New Internationalist*, who will discuss factors to consider when writing for national magazines, and Ian Kirkby, journalist for the *Waterloo Chronicle*, who will focus on the local media. Cost of the workshop is \$2.50. For more information, call Kathy Kennedy at Ext. 6918.

Children's concert

Award-winning children's recording artist Eric Nagler will perform Jan. 29 at 1 p.m. in War Memorial Hall. Tickets are \$6.50 and are available from the University Centre box office.

FACS alumni, students meet

The Mac-FACS Alumni Association will hold a coffee party for FACS students Jan. 26 from 10 a.m. to noon in the FACS student lounge. It's an opportunity for students to meet with alumni, make contacts and learn more about the work of the association. For more information call Sharon Hartung, Ext. 8107, or Betsy Allan, Ext. 6533.

Theatre in the Trees

The Arboretum's dinner theatre, *Theatre in the Trees*, is offering the Neil Simon comedy *I Ought to be in Pictures*, directed by John Snowdon. Scheduled performances are Jan. 21 and 28, Feb. 4, 11, 18, and 25, March 4, 11 and 18, April 1, 15, 22 and 29, and May 6. Dinner is at 6:30 p.m.; the play begins at 8 p.m. Cost is \$29.50. Tickets are available at the University Centre box office, Ext. 3940. For more information, call Ext. 2113.

Biochemistry seminars

The Department of Chemistry and Biochemistry's winter biochemistry seminar series continues Jan. 25 with Prof. Peter O'Brien, Department of Pathology, discussing "Malignant Hyperthermia Susceptibility: Hypersensitive CA2+ Release Channel of Sarcoplasmic Reticulum." On Feb. 8, Rose Sheinin of the department of microbiology at the University of Toronto will discuss "Recent Studies on the Characterization of a Human Gene Required for DNA Replication." The seminars begin at 12:10 p.m. in Room 222, MacNaughton building.

Drama invited to festival

The Department of Drama has been invited to send a guest production to the third Quebec Festival of University Theatre, which will be held March 15 to 19 at Bishop's University, Lennoxville. Other guests have been invited from France and Louisiana State University.

Learn to relax

The Stress Management and High Performance Clinic in the School of Human Biology will offer noon-hour and evening group relaxation classes this winter, as well as relaxation classes for students in residence. Registration is Jan. 19. For the noon-hour class, register at 12:10 p.m. in Room 209, Human Biology building; for the evening class, register at 7:30 p.m. Registration for the student class is at 7 p.m. in the Fireplace Lounge, Lennox-Addington Hall. The clinic also offers biofeedback-assisted relaxation classes, booster classes and private training sessions. For more information or to reserve a place in a class, call Ext. 2662.

Art talk

Prof. Ron Shuebrook, chair of the Department of Fine Art, will discuss his works in an illustrated lecture Jan. 22 at 3 p.m. at the Macdonald Stewart Art Centre. Reception will follow at 4 p.m.

Computing seminars

Today's topic in Computing Services' lunch-time discussion series is "Presentation Graphics." It begins at noon in Room 204, Computing Services. Next Wednesday, discussion will focus on "Breaking the 640K Limit."

Segal speaks to PSA

President Brian Segal will be guest speaker at the Professional Staff Association's brown-bag lunch series Jan. 24 at 12:10 p.m. in Room 103, University Centre. Segal will discuss "A Philosophy of Service for the University."

Focus on the land

Guelph Agricultural Alternatives, a sustainable agriculture resource group on campus, will host the conference "Land Stewardship: Our Guarantee for the Future?" Feb. 4. Keynote speaker is Wes Jackson, an internationally respected prairie ecologist from the Land Institute in Kansas. The conference runs from 8:15 a.m. to 5:30 p.m. and includes exhibitions and workshops. Cost is \$20 (\$10 for students and \$35 for couples). For information and conference programs, write to Jack Coulson, Box 244, SFOAC, University of Guelph, or call 925-3593.

Noon-hour concert

The Thursday noon-hour concert Jan. 26 will feature the Brass Sinfonia at 12:10 and 1:10 p.m. in Room 107, MacKinnon building. Admission is free.

What's on at The Arboretum

The Arboretum's winter series of Sunday afternoon walks begins Jan. 22 with "Winter Birds and Bird Feed," a tour of the bird feeders and plantings in the Gosling Wildlife Gardens. It will provide participants with information about feeding birds and what kind of birds they can attract. The series continues Jan. 29 with "Porcupines in The Arboretum." Designed for families and "beginners," the naturalist-led walks leave from The Arboretum Nature Centre at 2 p.m. For groups with a special nature interest, the centre will tailor a specific program. The centre also offers a variety of half-day interpretation programs for preschool, elementary and secondary classes, as well as badge

programs for brownies, cubs, guides and scouts. Cost for these arranged programs is \$2 per participant, with a minimum charge of \$40.

Systematics seminar series

The Interdepartmental Systematics Group begins its winter seminar series Jan. 27 with Prof. Art Hilliker, Department of Molecular Biology and Genetics, discussing "Linkage Group Conservation in *Drosophila*" at 3:10 p.m. in Room 141, Animal Science building.

Guided prayer

A week of guided prayer, an opportunity for ecumenical prayer/faith sharing, will run Feb. 12 to 18 in Guelph. It is supported by Dublin Street United Church, Guelph Mennonite Church, Harcourt Memorial United Church and St. Paul's Lutheran Church, with leadership from other Protestant and Roman Catholic congregations. For more information and registration forms, call the University chaplain's office at Ext. 8909 or Ellice Oliver at 824-4177 between 9 a.m. and 5 p.m.

OVC seminars

The OVC seminar series continues Jan. 25 with Dr. David Galligan of the New Bolton Centre, University of Pennsylvania, discussing "Economic Aspects of Veterinary Nutritional Services." On Jan. 27, Dr. Norm Ducharme of New York State College of Veterinary Medicine at Cornell University will be on campus to give a talk on "Teat Surgery in Dairy Cattle." Both lectures are at 12:10 p.m. in Room 508, Clinical Studies building.



Plan to go
to the
Health Fair

A holistic approach to health will be the central philosophy behind Health Fair '89, sponsored by the Wellness Promotion Task Group.

The purpose of the fair, to be staged Feb. 5 and 6 from 10 a.m. to 4 p.m. in the University Centre courtyard, is public education, says Norm DeMers, one of the organizers. "We want to encourage self-help and self-knowledge. We believe people are basically responsible for their own health."

Students are the target audience, but the fair is open to the general public. There will be exhibits to inform people about health issues, the risks involved with certain activities and services that are available in the community. Among the displays will be booths on AIDS, eating disorders, OHIP, massage, cancer, Weight Watchers, immunization, student health insurance, health food and women's issues.

The two previous health fairs, in 1985 and 1986, were a success, DeMers says, and the task group sees this type of event "as a potent vehicle for infusing an immediate and intense awareness within the students that the University is very concerned about health promotion on campus."

The task group is made up of representatives from the Counselling and Student Resource Centre, Medical Services, Athletics, Residences, Food Services, the Graduate Students Association and the Central Student Association. □

Books



College of Physical Science Dean Iain Campbell presents a copy of *PIXE: A Novel Technique for Elemental Analysis*, which he co-authored with Prof. Sven Jhansson, Lund Institute of

Technology, Sweden, to Ellen Pearson, acting chief librarian.

Photo by Herb Rauscher, Photographic Services

Coming events

WEDNESDAY, Jan. 18

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Feminist and Christian, 10:10 a.m., UC 533; Ecumenical Holy Communion, 12:10 p.m., UC 533; Community Fellowship, 5 to 7 p.m., Chaplain's Lounge, UC Level 3; Immanuel Christian Fellowship, 5 to 7 p.m., 287 Water St.
Concert - Mike Woods, noon, UC courtyard.
Computing Seminar - "Presentation Graphics," noon, Computing Services 204.

THURSDAY, Jan. 19

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Relationships: The Central Concern of Jesus, 4 p.m., UC 533; Exploration in Meditative Prayer, 5:10 p.m., UC 533; Social Evening, 6 to 9 p.m., UC 334/335.
Lecture - "John Fowles's *French Lieutenant's Woman*," James Acheson, 11 a.m., MacKinnon 225.
Pathology Seminar - "The Influences of Serum Proteins on a Hepatocyte Growth Factor," J. LaMarre, 11:10 a.m., Pathology 220.
Registration - Group Relaxation Classes, register from 12:10 to 1 p.m. for noon classes, at 7:30 p.m. for evening classes, Human Biology 209; Group Class for Students in Residence, register at 7 p.m., Fireplace Lounge, Lennox-Addington.
Workshop - "Writing about Development," 1 p.m., UC 103, \$2.50.
25th Anniversary - Art Exhibition, "University of Guelph Fine Art Graduates," opening reception, 4 to 6 p.m., Macdonald Stewart Art Centre.

FRIDAY, Jan. 20

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 8:10 a.m., UC 533.
25th Anniversary - National Ballet of Canada, 8 p.m., Ross Hall, \$11 to \$17.

SATURDAY, Jan. 21

Human Biology Symposium - "The Cutting Edge: Revolutions in Organ Transplants," 9 a.m. to 5 p.m., MacNaughton 105; Awards Presentation and Dinner, 8:15 p.m., Cullen Club; \$10 (\$18 with dinner).
Dinner Theatre - Theatre in the Trees, *I Ought to Be in Pictures*, 6:30 p.m., Arboretum Centre, \$29.50.

SUNDAY, Jan. 22

Worship - Morning Worship Service, University Bible Studies, 9 a.m., UC 441; Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry, 8 p.m., UC 533.
The Arboretum - Sunday Afternoon Walk, "Winter Birds and Bird Feed," 2 p.m., Nature Centre.
Art Lecture - Ron Shucbrook, 3 p.m., Macdonald Stewart Art Centre, reception to follow at 4 p.m.

MONDAY, Jan. 23

Worship - Devotions, 8:45 a.m., Campus

Ministry Lounge, UC Level 3; Liturgy of the Word, 5:10 p.m., UC 533.
Human Biology Seminar - "Effects of Hindlimb Suspension on Muscle Metabolism," Dan Marsh, 12:10 p.m., Human Biology 108.
Continuing Education - "Forks in the Road: Life's Transitions and Choices," 7 p.m., three weeks, register at Ext. 3956/7.

TUESDAY, Jan. 24

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 12:10 p.m., UC 533; Inquiry into Catholicism, 4 p.m., UC 334; Faithfully Curious, 5 p.m., UC 335.
Our World - "A Licence to Kill," 12:10 p.m., UC 441.
PSA Brown-Bag Lunch Series - "A Philosophy of Service for the University," Brian Segal, 12:10 p.m., UC 103.

WEDNESDAY, Jan. 25

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Feminist and Christian, 10:10 a.m., UC 533; Ecumenical Holy Communion, 12:10 p.m., UC 533; Immanuel Christian Fellowship, 5 to 7 p.m., 287 Water St.; Community Fellowship, 5 to 7 p.m., Chaplain's Lounge, UC Level 3.
Concert - Terry Kelly, noon, UC courtyard.
Computing Seminar - "Breaking the 640KB Limit," noon, Computing Services 204.
OVC Seminar - "Economic Aspects of Veterinary Nutritional Services," David Galligan, 12:10 p.m., Clinical Studies 508.
Biochemistry Seminar - "Malignant Hyperthermia Susceptibility: Hypersensitive CA2+ Release Channel of Sarcoplasmic Reticulum," Peter O'Brien, 12:10 p.m., MacNaughton 222.
Art Lecture - "University of Guelph Fine Art Graduates Exhibition," Ingrid Jenker, 2 p.m., Macdonald Stewart Art Centre.
Continuing Education - "You are What You Eat," 7 p.m., 10 weeks, register at Ext. 3956/7.

THURSDAY, Jan. 26

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Relationships: The Central Concern of Jesus, 4 p.m., UC 533; Exploration in Meditative Prayer, 5:10 p.m., UC 533; Social Evening, 6 to 9 p.m., UC 334/335.
MacFACS Alumni Association - Coffee Party for FACS students, 10 a.m. to noon, FACS student lounge.
Career Services - Summer Job Fair, 10 a.m. to 3:30 p.m., UC courtyard.
Pathology Seminar - "Pathogenesis of Liver Neoplasms in Fish from Polluted Sites in Lake Ontario," G.M. Kirby, 11:10 a.m., Pathology 220.
Concert - The Brass Sinfonia, noon, MacKinnon 107, free.

FRIDAY, Jan. 27

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 8:10 a.m., UC 533.

OVC Seminar - "Teat Surgery in Dairy Cattle," Norm Ducharme, 12:10 p.m., Clinical Studies 508.
Systematics Seminar Series - "Linkage Group Conservation in *Drosophila*," Art Hilliker, 3:10 p.m., Animal Science 141.
Men's Volleyball - Vs Waterloo, 7:47 p.m., Athletics Centre, \$2.
Humanities Association - "Landscape Architecture - Art or Science?" Jim Taylor, 8 p.m., MacKinnon 114, non-members \$5, students free.

SATURDAY, Jan. 28

Volleyball - Alumni Scrimmage, 2 p.m., Athletics Centre.
Dinner Theatre - Theatre in the Trees, *I Ought to Be in Pictures*, 6:30 p.m., Arboretum Centre, \$29.50.

SUNDAY, Jan. 29

Worship - Morning Worship Service, University Bible Studies, 9 a.m., UC 441; Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry, 8 p.m., UC 533.
Children's Concert - Eric Nagler, 1 p.m., War Memorial Hall, \$6.50.
The Arboretum - Sunday Afternoon Walk, "Porcupines in The Arboretum," 2 p.m., Nature Centre.

MONDAY, Jan. 30

Worship - Devotions, Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 5:10 p.m., UC 533.

TUESDAY, Jan. 31

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 12:10 p.m., UC 533; Inquiry into Catholicism, 4 p.m., UC 334; Faithfully Curious, 5 p.m., UC 335.
Our World - "Speaking our Peace," 12:10 p.m., UC 441.
Continuing Education - "Wine Appreciation II," 7 p.m., 11 weeks, register at Ext. 3956/7.
CUSO - Information Meeting, 7:30 p.m., UC 447.
Women's Volleyball - Vs Western, 8 p.m., Athletics Centre.

WEDNESDAY, Feb. 1

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Feminist and Christian, 10:10 a.m., UC 533; Ecumenical Holy Communion, 12:10 p.m., UC 533; Immanuel Christian Fellowship, 5 to 7 p.m., 287 Water St.; Community Fellowship, 5 to 7 p.m., Chaplain's Lounge, UC Level 3.
Computing Seminar - "Desktop Publishing I - IBM PC Solutions," noon, Computing Services 204.
Biochemistry Seminar - "Recent Studies on the Characterization of a Human Gene Required for DNA Replication," Rose Sheinin, 12:10 p.m., MacNaughton 222.
OVC Seminar - "Feedlot Health Management,"

Ken Bateman, 12:10 p.m., Clinical Studies 508.
25th Anniversary - Achievers Lecture Series, Roberta Bondar, 5 p.m., UC 103.

Graduate news

The following graduate students have successfully completed requirements for their PhD programs and will graduate at winter convocation:

- Raymond Berard, Land Resource Science, whose thesis is entitled: "Whole-Plant Enclosure Studies on the Effects of Increased Evaporative Demand and Soil Water Content on Photosynthesis in Maize";
- Lino Correia, Engineering, "Selection Criteria of Meat Emulsion Fillers Based on Cooking Kinetics in a Smokehouse";
- Nancy Crowe, Food Science, "Effect of Chlorine Compounds and Other Oxidants on the Oxidative Gelation and Cake-Baking Properties of Wheat Flour Pentosans";
- Herman Deboer, Animal and Poultry Science, "The Influence of Photoperiod and Melatonin on Hormone Levels, and Operant Light Demand in the Pig";
- Gordon Fairchild, Land Resource Science, "VA Mycorrhizae and the Soil-Disturbance-Induced Reduction in Nutrient Absorption by Maize as Influenced by Soil P Amendments";
- Donal Haire, Chemistry & Biochemistry, "Isotopic Substitution in Spin Trapping: Deuterium and Carbon-13 Labelling of Nitrones and Radical Addends";
- Hugues Massicotte, Botany, "A Comparative Structural and Developmental Analysis of a Range of Ectomycorrhizal Associations";
- Cornelius Poppe, Veterinary Microbiology & Immunology, "Virulence-Associated Plasmids in *Salmonella*"; and
- Harold Schroeter, Engineering, "An Operational Snow Accumulation-Ablation Model for Areal Distribution of Shallow Ephemeral Snowpacks."

The following graduate student has successfully completed requirements for the final D.V.Sc. oral examination and will graduate at spring convocation:

- Doreen Houston, Clinical Studies, "An Integrated Study of Colonic Disease in the Dog." O

UGFA seeks nominees for teaching awards

The University of Guelph Faculty Association is calling for nominations for its 1988/89 teaching awards.

The UGFA will recognize excellence in teaching on campus with seven distinguished professor awards - one for each college - and up to two special merit awards, based on innovation.

The closing date for nominations is Feb. 15; the winners will be announced March 31. For more information, call the association at Ext. 2126. O

Education watch

Ontario residents favor more funding for education

A vast majority (90 per cent) of Ontario residents agree that funding to universities should be increased or kept up to inflation, an Ontario Institute for Studies in Education (OISE) survey reveals. But they're divided on whether or not to pay more taxes in support of education. The survey is the seventh commissioned by OISE on public attitudes toward education. It involved more than 1,000 Ontario residents, 18 years of age and over, who were polled by Gallup last Sept. 12 to 24. Support for increased educational funding has clearly grown throughout the 1980s, with significant gain continuing over the past two years, according to the survey. Almost two-thirds of the respondents rejected limiting the number of students admitted to university and community college according to the availability of jobs. Only 62 per cent of respondents felt students from all social classes had equal access to higher education. This represents a significant decline from past surveys, says the report. Participation in adult and continuing education remains an important phenomenon in Ontario; about one in four adults took a course in the past year. An edited version of the survey report will appear in the February issue of OISE's *Orbit* and will then be available for purchase at \$3 per copy (prepaid) from OISE Press, OISE Bookstore, 252 Bloor St. W., Toronto M5S 1V6, telephone 416-926-4707.

Notes from AUCC

To lead AIDS research group

Prof. Tak Mak of the University of Toronto will be in charge of a \$2.5-million (U.S.) project funded by the U.S. National Institute of Allergy and Infectious Diseases. The team, which will include researchers from Harvard University and the University of California and the involvement of two pharmaceutical companies, will examine how the human immuno-deficiency virus (HIV) attaches itself to immune cells. The researchers will also look for chemicals to block that process and thereby the spread of the virus.

Airsick for science

Two University of Western Ontario researchers - Rasmus Kromann and J.M. Floryan - went on an 8,000-foot roller coaster ride in Texas to study how water droplets break up in zero gravity. In a modified Boeing 707 operated by NASA, they experienced repeated periods of 20 to 25 seconds of weightlessness as the aircraft climbed and dove at angles most commercial travellers will never know. The team photographed the dispersal of water droplets suspended in an electric field, with a view to improving techniques for electrostatic spray painting and pesticide spraying. Zero gravity permits the formation of larger water droplets than is possible under normal circumstances. The UWO research is being supported by the National Research Council. Use of the Boeing 707 has its ups and downs, but has proven much cheaper than conducting gravity-free experimentation in space.

Early Canadian feminist novel reprinted

Rummaging through a collection of books purchased at an auction, University of Waterloo graduate student Ann Hicks discovered a novel, *Aleta Dey*, first published by Manitoba writer Francis Beynon in 1919. The autobiography depicts the life and times of a suffragist in a less-than-friendly environment. Hicks sought a Canadian publisher for a reprint, but there were no takers, so the novel, with her introduction, is being published by Virago Press of Great Britain, which has also published Margaret Atwood in Britain. Hicks says the book is charming because it shows that suffragists were not the stereotyped crabby, old spinsters popular folklore makes them out to be. O

Personnel report

Appointments

Prof. Merwan Engineer was appointed assistant professor in the Department of Economics effective Jan. 1.

Craig McNaught of Kitchener joined the University Jan. 16 as supervisor of printing and duplicating services, Publication and Printing Services.

Richard Hunter of Willowdale has been appointed adjunct professor in the School of Hotel and Food Administration for a four-year term that began Jan. 1.

Job opportunities

As of *At Guelph* deadline Jan. 13, 1988, the following opportunities were available:

Director of Retail Operations, Administrative Services. Salary commensurate with qualifications and experience.

Research Technician, Department of Molecular Biology and Genetics; grant position. Salary negotiable.

Analyst, Computing Services; contractually limited from Jan. 1 to Dec. 31, 1989. Salary commensurate with qualifications and experience.

The following positions were available to on-campus employees only:

Administrative Secretary, Department of Family Studies. Salary range: \$351.36 minimum; \$405.50 job rate (level 5); \$503.52 maximum.

Conference Administrator, Division of Continuing Education; temporary full-time until Nov. 30/89. Normal hiring range: \$383.17 to \$415.39 per week.

Custodian A, Housekeeping. Job rate: \$11.86 per hour; probation rate: \$2.20 per hour lower than job rate.

It is the University's policy to give prior consideration to on-campus applicants. To determine the availability of University employment opportunities, contact employment services and training, Level 5, University Centre, or telephone 836-4900. O

New retirees

The following people are among those who have retired from the University since last June and who have given permission to have their names published in *At Guelph*:

Antonio Baldasso, Grounds; Margaret Beckman, Centre for Information Technology; Anna Blewett, Housekeeping; Joan Boutillier, Housekeeping; Margaret Craig, Housekeeping; Dick Brown, Athletics; John Bryant, Police; Prof. Jack Clark, Agricultural Economics and Business; Joseph DiGravio, Athletics; Harvey Dennie, Central Utilities; Vladan Djurickovic, Animal and Poultry Science; Robert Douglas, Housekeeping; Prof. Helen Dow, Fine Art; Brian Dowling, Crop Science; Herbert Driver, Agricultural Economics and Business; Frank Fenech, Central Utilities; Judith Fletcher, Dean's Office, OVC; Fritz Floto, Biomedical Sciences; Anne Gould, Library; John Grant,

Police; Prof. Patricia Hamey, Horticultural Science; Barbara Hodsdon, Special Services; John Hunter, Fire Division; Joyce Judson, Personnel; Mary Kahle, Food Services; Patrick Kaine, Police; Werner Kaiser, Housekeeping; Aranka Kostenek, Environmental Biology; Teresa Kuipers, Biomedical Sciences; Laurence Maisonneuve, Housekeeping; Leona McKendry, Office of the Registrar; Leo Melancon, Building Mechanics Shop; Charalambos Metaxakis, Administration Department; Karl Micks, Structural Shop; Bert Moeskens, OVC Field Station Services; Lloyd Morrison, Building Mechanics Shop; John O'Brien, Chemistry and Biochemistry; Marcel O'Brien, Housekeeping; Hilda Pagnan, Housekeeping; Thomas Phelan, Locksmith Shop; Raymond Pollard, Media Productions; August Popp, School of Engineering; Inez Rappard, Library; Prof. Harold Reed, Clinical Studies; Marjorie Snyder, Animal and Poultry Science; Livestock Centre; Prof. Peter Southwell, School of Engineering; Prof. William Stammers, School of Engineering; Florence Stewart, Central Purchasing; Amelia

Stradiotto, Food Services; John Taggart, Central Utilities; Melvin Tolton, Mechanical Shop; Prof. George Todd, Philosophy; Pat Tucker, Grounds; Prof. Elizabeth Upton, School of Hotel and Food Administration; Ralph Whitlaw, Animal and Poultry Science; Livestock Centre; Gordon Willis, Physics; John Wills, Property Management; Douglas Wilsie, Police; Anthony Yanchus, Traffic and Tax; Delia Blythe, Media Productions; Alan Singleton, School of Engineering; Irene Thorenton, Computing and Communications Services; William Stickland, Housekeeping; Ethel Taggart, Library; Bruno Pagnan, Housekeeping; Prof. John Sprague, Zoology; Anna DiGravio, Laundry; Lyle Maltby, OVC Field Station Services; Joan Hatch, Housekeeping; Carlo D'Ulisse, Housekeeping; Arthur Bastell, Housekeeping; Prof. Evelyn Bird, Human Kinetics; Margaret Jackson, Library; John Weatherston, Structural Shop; John Ferguson, Building Mechanics Shop; Margaret McWade, Bursar's Office; Erich Barth, Public Relations and Information; and Bonnie Ensing, Dean's Office, OAC. O

Personals

For Sale: Shih Tzu puppies, CKC registered, mother number one in obedience and fifth in non-sporting group for 1987, father from champion lines, ready end of January, 822-0291 evenings. 1987 Chev Celebrity Eurosport, Mark. 822-0923 after 6 p.m. Laboratory microscope, Leitz Laborlux "K", binocular tube, large mechanical stage, Universal condenser, magnifications: 40-100-400, mint condition, Peter Frey, 1071e de Mai, Boisbriand, P.Q. J7G 1R7, 514-437-0350. Bentwood rocker, Ext. 2965 or 821-5502 after 5 p.m. Magazines — *Scientific American* (1958 to 1961) and *American Rifleman* (1935 to 1980), 416-845-0500. IBM PC clone, two floppies, Hires monochrome monitor, graphics card, 822-1683. Inside wooden door, ski carrier, rollaway cot, desk lamp, bathroom curtains, new electric grill, 822-3129. Bed chesterfield, Ext. 6706 or 836-8154 evenings. Renovated three-bedroom brick house, new plumbing and wiring, eat-in kitchen with appliances, 1 1/2 baths, Jacuzzi, main floor laundry, 836-4173 or leave message. Antique vanity, new drafting board, Ext. 4779 or 763-1709.

Wanted: Two houses to sublet, two to three bedrooms each, from May to August, for two graduate students and their visiting families, preferably in the Guelph area, Matt, Ext. 6789. Cross-country skis, 120 cm long, suitable for a small child, Ext. 3949 or 824-8298.

For Rent: Four-bedroom house, close to downtown, three kilometres from campus, available May to December 1989, rent negotiable, David, Ext. 3833 or 821-8293. New luxury two-bedroom duplex unit in heritage stone home

area, former church rectory, ground floor entrance, all new appliances, interior stone walls, street parking, \$1,100 a month plus utilities, 821-7152. Two-bedroom apartment, close to downtown, Ext. 4779 or 821-3455. Bedroom with separate entrance, kitchen and bathroom, \$250 a month, 821-6061 after 5 p.m. Three-bedroom brick house, parking for four, \$980 a month plus utilities, 836-4173 or leave message. Modern three/four-bedroom house on Grand River between Fergus and Elora, daily bus service to University, available Feb. 1 for six months, 846-9980.

Available: Word processing, 821-5502 after 5 p.m. Word processing with LaserJet printer, graphics also available, Lisa, Ext. 6116 or 822-1438 after 5:30 p.m.

Coming up

"Visions '89," the international conference for adult educators, will be held May 3 to 6 in Calgary. For more information, contact Lois Kokosi, Conference Office, University of Calgary, 2500 University Drive N.W., Calgary T2N 1N4, telephone 403-220-5051.

A call for papers has been issued for the fourth national Conference on Research at Small Universities to be held at Lakehead University, Thunder Bay, April 27 to 29. Researchers are invited to submit an abstract of 300 words or less. Abstracts should be forwarded by Feb. 1 to Trish McGowan, Research Officer, Graduate Studies and Research, Lakehead University, Thunder Bay, Ontario P7B 5E1, FAX: 807-343-8023, telephone 807-343-8223. Acceptance of paper will be confirmed by March 1.

(Notes from AUCC)

Personnel report

Appointments

Richard Knowles of the drama program and English department, Mount Allison University, will become associate professor and chair of the Department of Drama July 1 for a five-year term.

Paul Goodwin, department of plant pathology, University of California, Davis, will join the Department of Environmental Biology this summer as assistant professor. Prof. Brian Derbyshire, Department of Veterinary Microbiology and Immunology, will be acting dean of the Faculty of Graduate Studies from April 1 to Sept. 30 while Dean Doug Omond is on administrative leave.

Prof. Richard Miller has been reappointed chair of the Department of Pathology for a three-year term that will end Dec. 31, 1992. Praveen Saxena of the laboratory of plant cell and molecular biology, Institute of Food and Agricultural Sciences, University of Florida, will join the Department of Horticultural Science in August as assistant professor.

Douglas Joy has joined the School of Engineering as lecturer.

Job opportunities

As of *At Guelph* deadline Jan. 20, 1988, the following opportunities were available: Program Assistant, Development Education Program, Centre for International Programs; CIDA grant. Salary: \$19,000 plus benefits. Special Events Co-ordinator/War Memorial Hall, Central Reservations and Conferences, Department of Residences. Salary range: \$413.78 minimum; \$453.14 job rate (level 5); \$546.35 maximum.

The following positions were available to on-campus employees only: Transportation and Surplus Co-ordinator, Administrative Services. Salary range: \$493.33 minimum; \$536.57 job rate (level 5); \$648.38 maximum. Research Technician, Environmental Biology. Salary range: \$437.28 minimum;

\$505.69 job rate (level 5); \$626.99 maximum. Accounting Clerk, Medical Services. Salary range: \$320.11 minimum; \$369.95 job rate (level 5); \$460.78 maximum. Secretary II, Animal and Poultry Science. Salary range: \$320.11 minimum; \$369.95 job rate (level 5); \$460.78 maximum. Secretary II, Horticultural Science. Salary range: \$320.11 minimum; \$369.95 job rate (level 5); \$460.78 maximum. Custodian 2, Housekeeping: four positions. Job rate: \$10.88 per hour; probation rate: \$2.20 per hour lower than job rate. Secretary I, Economics. Salary range: \$291.86 minimum; \$338.48 job rate (level 5); \$406.26 maximum. Design Draftsperson (electrical), House-

keeping. Salary range: \$437.28 minimum; \$505.69 job rate (level 5); \$626.99 maximum. Central Reservations Clerk, Central Reservations and Conferences, Department of Residences. Salary range: \$320.11 minimum; \$369.95 job rate (level 5); \$460.78 maximum. Secretary I, Personnel. Salary range: \$291.86 minimum; \$338.48 job rate (level 5); \$406.26 maximum.

It is the University's policy to give prior consideration to on-campus applicants. To determine the availability of University employment opportunities, contact employment services and training, Level 5, University Centre, or telephone 836-4900. ○

Personals

For Sale: Primis: Brenders, Parker, Doolittle, Romance. 824-5865 after 4:30 p.m. Air ticket, Toronto to Saskatoon, Feb. 11, return Feb. 17; air ticket Toronto to San Francisco, Feb. 14, return Feb. 22; Amdek 310 monitor (TTL). Krs. 967-3370. Half-acre country lot, Puslinch Township, Bonnie, Ext. 3803, or 1-623-2248 after 4:30 p.m. 1965 Mustang Coupe, six-cylinder automatic, Arizona car, as per, Nat. 822-4603.

Wanted: Mature, professional, non-smoking female to share two-bedroom townhouse with same, \$270 a month plus utilities, available Feb. 1, leave message at 822-0235. Small house out of town, one or two bedrooms, to rent by couple (wife is U of G employee, husband is student), up to \$600 a month plus utilities, Barbara, Ext. 4761, or 763-3711 evenings.

For Rent: New luxury two-bedroom condo, five appliances, sheers included, use of whirlpool, gym and sauna, available immediately, \$900 and up a month, 824-8445. One bedroom in two-bedroom base-

ment, newly renovated, separate entrance, bathroom, kitchen, utilities and laundry included, University area, non-smoking male graduate student preferred, \$280 a month, 836-8137 evenings. Large one-bedroom apartment in Rockwood, available Feb. 1, \$479 a month plus hydro, 856-4519 after 6 p.m. Four-bedroom house close to campus from March to August 1989, family only, \$900 a month plus utilities, Ext. 3446 or 836-6238.

Available: Free 1989 wall and desk pad calendars and vacation schedule sheets in the Purchasing Department, second floor, Day Hall, pick up anytime during business hours. Word processing with LaserJet printer, graphics available, Lisa, Ext. 6116 or 822-1438 after 5:30 p.m.

"Personals" is a free service offered by *At Guelph* for staff, faculty and students at the University. All items must be typed, double spaced, and submitted to *At Guelph* one week before publication. ○

OAC offers computing courses this winter

OAC is offering a number of free computer literacy courses this semester. The basic program has been enhanced to include courses on VITAL, MADD and Right Writer. To register or to receive an information sheet outlining the syllabus of each course, call Ext. 6514. CoSy users can obtain this information by accessing open conference OACIT and reading message number 274. For more information, call Tony Mackay at Ext. 3450.

The following courses are being offered:

COURSE TITLE	LENGTH	BEGIN
Introduction to SAS	12 hrs.	Feb. 6
Introduction to WordPerfect	6 hrs.	Feb. 6
Version Five	2 hrs.	Feb. 9
Overview of Communication Services on Campus		
The FORTRAN Programming		

Language	10 hrs.	Feb. 10
Introduction to NetNorth	2 hrs.	Feb. 16
The "C" Programming Language	10 hrs.	Feb. 16
Introduction to Lotus 1-2-3	4 hrs.	Feb. 20
Slide & Hard Copy Graphics on the Micro Computer using Lotus Freelance Plus		
Introduction to Computer Terminology	3 hrs.	Feb. 23
Right Writer	4 hrs.	Feb. 27
Accessing Library Databases MADD	2 hrs.	Feb. 28
Micro Word Processing & CoSy Communications	2 hrs.	March 2
Linear Programming	2 hrs.	March 7
Introduction to dBASE III/IV	8 hrs.	March 10
VITAL	4 hrs.	March 16
	2 hrs.	March 16

Cover:

Got the munchies? Technician Mary Kay Keenan and Prof. Robert Coffin, Horticultural Science, dig into chips produced from Saginaw Gold, a potato developed at U of G. See story, page 3. Photo by Owen Roberts, Office of Research

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Guelph to honor scientist, business leader

U of G will honor world-renowned mathematician Benoit Mandelbrot and Canadian business executive Alan Marchment, a former member of the University's Board of Governors, during winter convocation ceremonies Feb. 3.

Mandelbrot will receive an honorary doctor of science degree at the 10 a.m. ceremony in War Memorial Hall and will address graduates receiving the degrees doctor of philosophy, doctor of veterinary science, master of arts, master of science, master of landscape architecture, doctor of veterinary medicine and bachelor of arts, and the graduate diploma.

Marchment will be named a fellow of the University at the 2:30 p.m. ceremony and will deliver the convocation address. Degrees and diplomas will be presented to graduates of the bachelor of applied science, bachelor of commerce, bachelor of science, bachelor of science in human kinetics, bachelor of science in agriculture, bachelor of science in engineering and the associate diploma in agriculture programs.

Benoit Mandelbrot

Recognized as one of the world's leading mathematicians, Mandelbrot is one of the few scientists of recent times who have made a major impact both on science and on the popular domain. His invention of fractal geometry has helped reshape scientific thinking and has been applied in fields as varied as astronomy, geography, biology, physics and economics.

Fractal theory has also been applied to music and art. Many of the spectacular asteroid belts depicted in the "Star Trek" films were computer simulations of fractal shapes. The theory is also used to help explain the fluctuation of exchange rates, the spread of epidemics, corrosion and the distribution of the planets in other galaxies.

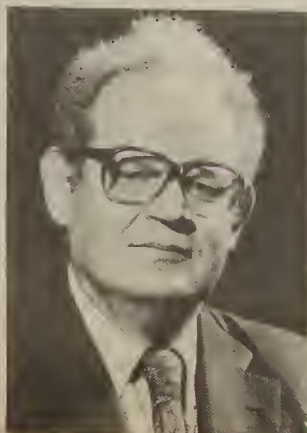
Its key is a type of shape — fractal — that looks the same no matter how many times it is magnified. A coastline is one of the most natural examples. Photographed from a satellite, the west coast of Canada appears jagged. A five-kilometre segment photographed from an airplane appears equally jagged, with innumerable bays and inlets. So does the stretch of shoreline you can see with your naked eye or measure with your outstretched arms. Whether you view it from a satellite or through a microscope, the coastline still looks jagged.

Mandelbrot's theory says that all fractals are self-similar and can be used to find hidden order in the apparent chaos of nature. When a numerical value is assigned, the irregular shapes of nature — clouds, rippling water or the structure of a protein — can be measured and simulated on paper or by computer.

His fractals were known to the scientific community by the early 1970s and gained widespread public attention following the 1982 publication of his book *The Fractal Geometry of Nature*. Born in Poland, he earned degrees at France's Ecole Polytechnique, the California Institute of Technology and the University of Paris. He was a member of France's national scientific research centre before his 1958 appointment to the research staff at the IBM Thomas J. Watson Research Centre in New York. In 1974, he was named IBM research fellow, and since 1987 has also been adjunct professor of mathematical sciences at Yale University.

A fellow of the American Academy of Arts and Sciences, he has been the recipient of several honorary doctorates, the 1985 Barnard Medal for Meritorious Service to Science and the 1986 Franklin Medal for Signal and Eminent Service in Science.

On Feb. 2, Mandelbrot will give a lecture and slide presentation on campus, discussing the practical applications of fractal geometry. It begins at 3 p.m. in War Memorial Hall and is open to the public without charge.



Alan Marchment

Benoit Mandelbrot

Alan Marchment

Marchment is senior executive of Guaranty Trust Company and honorary chair of Central Guaranty Trustco. He is being recognized for his contributions to the University of Guelph through service on the Board of Governors from 1973 to 1982 and as a member of the advisory council for *The Campaign*.

Marchment led the business community in the academic world by serving as chair of B of G from 1979 to 1982 and as chair of the Council of Chairmen of Boards of Governors of Ontario's Universities in 1980. He also served on the 1981 Fisher Committee on the Future Role of Universities in Ontario.

Marchment is well-known in the business community as recipient of the highest honors awarded by the chartered accountants profession, FCA, and the Trust Companies Institute, CTCI. He has also worked for various cultural, ethnic, civic and government bodies. He was chair of the board of the Toronto Symphony from 1979 to 1983, served on the executive committee of Metro Toronto International Caravan from 1975 to 1986 and is an honorary life member of the Canadian Wildlife Federation.

He chaired the private-sector committee to assess the performance of Canada Post Corp. in 1985 and is current chair of the Ontario Provincial Courts Committee.

Following both convocation ceremonies, a reception for the graduates and their families will be held in Peter Clark Hall on Level 0 of the University Centre. ○

University-wide planning process unveiled

Administrative and academic support units on campus will be brought into a modified University-wide planning process, which was outlined to Senate by President Brian Segal Jan. 17.

Senate approved, without comment, a Committee on University Planning (CUP) motion that the 1989/90 strategic planning cycle be delayed so that an improved and more comprehensive planning process can be developed.

The University's strategic planning process, approved by Senate in 1987, starts at the beginning of each new year with the appointment of a working group and the presentation of a context paper that is distributed to the University at large, together with a request for submissions to the strategic planning process.

Segal told Senate that he reviewed the process and proposes:

- Expansion of the process to include all sectors of the University;
- A fully integrated planning process involving both Senate and Board of Governors; and
- An expanded time frame so that issues can be properly implemented.

The current planning process looks at all academic units, but does not put the rest of the

University under the same microscope, said Segal. This includes Student Services, Residences, Physical Resources, Food Services and a whole range of activities that support the academic work of the University.

Segal said he did not wish to change the current planning process, but to "overlay" it with an objective to learn how the University can maximize the resources of the non-academic units and shepherd them effectively.

"We want to be more effective on the administrative side in the way we deliver resources to the rest of the University, and do it in the most cost-efficient manner," he said.

Segal added that he did not see any massive new demands on the academic units or any additional expectations in response to the planning process.

"It is rather a way of trying to continue with some of the better aspects of the existing planning process on the academic side, and beginning to put the rest of the University through as demanding a process, and then bringing both sets of plans together for the 1990/91 budget cycle."

CUP welcomes the president's initiative, CUP chair Prof. Ross Hallett, Physics, told Senate. In the past, the involvement of CUP and Senate in

planning and budget matters has been restricted to academic matters, he said.

Deans and senior administrators discussed Segal's proposal in an informal forum, and B of G was to do the same at a retreat last weekend.

A final version of the proposal for a modified University planning process is expected to be available in February or March for CUP to take

to Senate. Following Senate's consideration and approval, the proposal would then go to B of G for approval.

Once a more comprehensive planning process is in place, the preparation of the 1989/90 plan will begin, said Segal. In the meantime, work has begun on an initial version of a context paper on which the plan will be implemented. ○

Waiting, again, for funding

U of G is still waiting to hear from the provincial government on three funding announcements, President Brian Segal told Senate Jan. 17.

These are:

- capital money that is to come to the University under the government's capital accessibility envelope. This is an envelope created, in addition to the accessibility envelope, to provide for capital changes that would

improve facilities for the increased number of students;

- the annual allocation of funds for repairs and renovations; and
- new construction money.

Segal said the University hopes to have news on the first two areas within the next month, but he doesn't expect to hear any announcement on new construction money until the Ontario budget is brought down. ○

Astronaut Bondar to launch achievers series



She may be the next Canadian in space. Roberta Bondar was one of two Canadian astronauts nominated recently for a 1991 space shuttle flight. She will take time out from her training schedule at NASA headquarters in Houston to speak at U of G Feb. 1.

A 1968 graduate of Guelph, Bondar will give the first in a series of lectures by U of G alumni achievers, commemorating the University's 25th anniversary. Bondar was a student at OAC and graduated with a bachelor of science in zoology.

From Guelph, she went on to earn a master of science in experimental pathology from the University of Western Ontario, a doctorate in neurobiology from the University of Toronto and a doctor of medicine from McMaster University.

Bondar is on leave from McMaster, where she was appointed assistant professor medicine (neurology) and director of the Multiple Sclerosis Clinic for the Hamilton-Wentworth Region in 1982. She is a civil aviation medical examiner, a member of the Ontario Premier's Council on Science and Technology, a research fellow at Sunnybrook Hospital and a stroke neuro-ophthalmology research fellow at Toronto Western Hospital.

Bondar is competing with fellow astronaut Ken Money to fill Canada's position on the first international microgravity laboratory space shuttle flight. If selected, she will conduct experiments designed to test the effects of weightlessness on the human brain, with particular emphasis on balance and taste sensitivity.

Everyone is invited to hear Bondar speak Feb. 1 at 5 p.m. in Room 105, MacNaughton building. There is no charge for the event, which will include an audio-visual presentation. O

Senate approves international activities committee

Senate approved Jan. 17 an executive committee proposal for the creation of a Standing Senate Committee on International Activities.

The academic governing body also endorsed the committee's membership: the chancellor; president; academic vice-president; the directors of the Centre for International Programs (CIP), University School of Rural Planning and Development, and Counselling and Student Resources; the deans of research and graduate studies; seven faculty members appointed by Senate, one of whom will be a member of the advisory committee for CIP; and one graduate student, appointed by Senate. The chair will be elected by the committee from among those members of the committee appointed by Senate.

The committee's terms of reference were also approved:

- Review and develop policies and procedures

and make recommendations to Senate relating to international programs and the University's academic involvement in countries outside Canada;

- Keep under review the activities of CIP and formulate policies, subject to the approval of Senate, to govern the pursuit of activities impinging on the University's academic mission;
- Advise the vice-president, academic, on any other matters pertaining to CIP;
- Advise the director of CIP on matters referred to the committee by the director; and
- Formulate and monitor policy guiding the University's provision of education and services to international students, including contract education.

Responding to a question on the standing committee's membership, Academic Vice-President Jack MacDonald assured Senate that although it does include people involved in international activities, a subcommittee will be established consisting of objective and neutral people to deal with aspects of international activities that are of a moral or ethical nature.

In other business, Senate approved lists of graduands for winter convocation from the Board of Undergraduate Studies, Board of Graduate Studies (BGS) and Board of Studies for the Associate Diploma in Agriculture.

Also from BGS, Senate received for information a list of additions to graduate and associated graduate faculty as follows:

- Provisional graduate faculty — Mark Baker and Glenn Penner, Chemistry and Biochemistry;
- Temporary graduate faculty — Asma Ziauddin, Crop Science;
- Graduate faculty — Brian Segal, Political Studies;
- Associated graduate faculty without term — Jack Clark, retired, Agricultural Economics and Business; T.M. Devine, department of history, Strathclyde University/History; G.G. Stewart, Labatt's, London/Molecular Biology and Genetics; and M. Williams, ACVO/Clinical Studies; and
- Associated graduate faculty without term — F. Buick, Defence and Civil Institute of Environmental Medicine, Downsview/Human Biology, and E. Helmes, department of psychology, University of Western Ontario/Psychology.

Also from BGS, Senate approved changes in degree and general regulations, a course addition in the departments of English Language and Literature and Economics, a course change in the Department of Microbiology, and a course and program change in the Department of Philosophy, all for inclusion in the *Graduate Calendar*.

Finally, Senate received for information the Committee for Information Technology report outlining a new method of allocating central computing resources to faculty, staff and students. Thanks to the efficiency gains of an upgraded central computing facility and new disk and cartridge tape technology installed in August, Computing Services no longer depends on recovery dollars from the colleges to provide computing-related services to the University community. (Watch an upcoming issue of *At Guelph* for more details.) O

The long and short of it: new course formats approved

U of G is making its first move towards a mixed-semester system.

In December, Senate approved alternate course formats that will permit colleges to stretch some courses out over two semesters, while intensifying others to cover two semesters of work in one.

Prof. Leonard Conolly, associate vice-president, academic, says the alternate formats offer much-needed options to faculty and students, without diminishing the University's commitment to the semester system.

"We will never abandon the semester-length course," says Conolly. "The experience in other universities has been a move away from full-year courses to a mixed semester." Guelph's decision to offer full-year and double-credit courses will enhance the semester system, he says.

In the full-year format, students will earn two credits for a course that begins in September and ends with a final examination in April. That means no final exam before Christmas and no registration lineups for the course in January. Conolly expects this format will appeal primarily to first- and second-year students because it will enable them to adapt gradually to university without the intense academic pressure that semester-length courses bring.

Fewer exams and shorter lineups will also mean less pressure on administrative units at the beginning and end of each semester.

Conolly says the full-year course length will improve the quality of courses that require a great deal of reading, discussion and writing. Many subjects that are difficult to cover in a 13-week course can be studied more effectively under this format.

At the other end of the spectrum, Senate has also approved double-credit courses to be taken in a single semester. These courses will permit students to pursue a subject in depth, allowing for a research intensity that is not possible in a single-credit semester course, says Conolly.

He expects double-credit courses to appeal primarily to third- and fourth-year students who are willing to commit more time to independent study and research. It may also benefit students to combine the two new course structures.

Programming committees are being asked to examine the implications of introducing the new formats, says Conolly. Subject to the approval of Senate and the Board of Undergraduate Studies, the first double-credit and two-semester courses could be offered in the fall of 1990 or even earlier on a trial basis. O

Enrolment remains high

Enrolment trends set last fall at U of G have continued with an increased number of new students admitted for the winter semester.

The University's total undergraduate enrolment now stands at 11,668 — more than three per cent higher than at this time last year.

January brought more than 600 new full- and part-time students to campus, says Prof. Leonard Conolly, associate vice-president, academic.

"The number of students we've gained is very encouraging," he says. "We've raised our admission standards and still were able to attract 19 per cent more new students than last winter — the result of improved liaison and the continuing recognition of the quality of Guelph's programs."

A notable feature of this semester's enrolment figures, says Conolly, is the high percentage of new students in the general studies program. This indicates a growth in the number of mature students attending the University.

The graduate student population currently numbers 1,302, but registrations won't be completed until the end of the month. O

University policy on inclement weather/emergency procedures

Editor's Note: The following "Inclement Weather/Emergency Procedures" policy was approved by the University in February 1988 and is being printed in *At Guelph* for the first time for the information of the University community.

The policy of the University of Guelph is to remain open and in full operation at all times. Under severe weather conditions or in the case of an emergency, a decision may be made to restrict operations, or under the most severe circumstances, to close the University except for essential services.

Procedures:

1. The decision to restrict operations or to close the University is the responsibility of the president, or in this person's absence, a designate. In the absence of a designate, the responsibility resides with the next available officer in the following sequence:

- vice-president, academic
- vice-president, administration
- associate vice-president, academic
- associate vice-president, student affairs.

2. The vice-president, administration, is responsible for collecting and providing information to the president (or designate) on weather reports, the state of roads and parking lots, staff problems or any other matter relevant to the decision processes.

3. The decision to close the University or cancel classes is disseminated through the following procedures:

• The media:

Members of the University community and the general public are advised to listen to radio stations for information about the University's operations. Public Relations and Information is responsible for advising the media of the decision; in cases of early morning, this should be done by 7 a.m.

• On-campus:

During the day, the decision to close the University or cancel classes will be communicated through the normal reporting structure — deans, directors, chairs, managers and supervisors — who then have the responsibility to advise, where possible, faculty, staff and students by telephone or a notice on college and department bulletin boards.

• Weekends and holidays:

The president or decision maker will notify the executive officers of the University (including the director of Public Relations and Information), and they will notify the appropriate unit heads.

4. The decision process should include the following considerations:

- the time period covered;
- when further announcements will be made;
- day classes, evening classes, examinations and services of the University; and
- the availability of parking and the state of parking lots.

5. The heads of the following units are responsible for ensuring that service is continued and for identifying the essential staff to do so: Residences, Communications Services, Public Relations and Information, Food Services, Physical Resources, Computing Services, Security Services, the Parking Administration and the U of G Library.

6. Inquires for information about specific classes in the absence of an overall decision are to be directed through the switchboard to appropriate academic departments.

7. The director of Residences will be responsible for the development of procedures to deal with people stranded on campus during a severe storm. O

At Guelph

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At Guelph is guided by an editorial policy approved by the president of the University. A copy is available on request.

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FIRST GRADUATE:

Miguel Sangiacomo, centre, was the first graduate student to complete his studies during the University's 25th anniversary. While hundreds of people were eating birthday cake Jan. 12, he was defending his M.Sc. thesis in horticultural science. The thesis was an evaluation of the incorporation of wild and commer-

cial strawberry breeding lines. Sangiacomo has just returned to Argentina, where he works at INTA, the National Institute of Agricultural Technology. Congratulating him are his adviser, Prof. Alan Sullivan, left, and Joseph Woods, president of the Graduate Students Association.

Photo by David Thomas, PRI

In praise of peacekeeping

Retired political studies professor Henry Wiseman attended the recent ceremonial presentation of the Nobel Peace Prize to United Nations peacekeeping troops in Oslo, Norway.

At the ceremony, UN peacekeeping troops representing 16 of the 60 countries that contribute to peacekeeping operations were present when UN Secretary General Perez de Cuellar received the prize and congratulations from King Gustav of Norway.

Wiseman, who has long been involved with the UN and was director of peacekeeping programs at the International Peace Academy, says the troops have served international peace and security on 15 occasions by supervising ceasefire and related activities to prevent the recurrence of hostilities in world trouble spots.

He is optimistic about the future of world peacekeeping efforts. "When you consider the present stage of U.S.-Soviet rapprochement and realize that peacekeeping continued even at the height of the Cold War, it certainly seems that we can expect more frequent and effective use of peacekeeping troops around the world."

But disparities concerning peacekeeping still exist, he says. "While the Soviet Union and United States do not oppose peacekeeping, they continue to supply arms to countries in conflict."

Following the ceremony, Wiseman contributed to a specialized international conference in Oslo on the future of UN peacekeeping. He gave the first paper, a retrospective on peacekeeping from 1948 to 1988, discussed the recent change in Soviet attitudes and set forth the conditions for the more effective use of UN peacekeeping operations in the near future.

Wiseman, who is organizing the international conference "Ethical Choice in the Age of Pervasive Technology," to be held on campus in October, has been a consultant to the depart-

ments of National Defence and External Affairs and is a director of the Atlantic Council of Canada. He has lectured and conducted academic, diplomatic and military seminars on peacekeeping and the management of conflict around the world, and is academically and politically active concerning the nuclear arms race and arms control. □

Course for workplace leaders

With little or no training or experience, people are often called on to manage others. Effective management means working with employees to get things done right. Difficult people and situations can cause stress, which leads to poor performance and reduced productivity.

To help, the Division of Continuing Education is offering "Managing People at Work," a course beginning Feb. 4 for aspiring and newly appointed managers, as well as those with some supervisory experience.

Successful managers and supervisors are leaders who know how to resolve conflict, motivate others and build an effective and efficient team that gets results. "Managing People at Work" provides the tools you need to be a leader in the workplace, to handle difficult people and situations effectively, and to make good people and good situations better.

The course is the introductory section of the University's newest certificate program, also entitled "Managing People at Work."

For more information or to register, call Ext. 3956. □



JOB RETRAINING

Debbie Swackhammer, right, a student in Centennial CVI's adult education program, gets some pointers on the Student Information System from Garry Davidson, assistant registrar, Awards. Swackhammer worked in the Awards section on a one-week placement Jan. 9 to 13, as part of the Wellington Board of

Education's adult business course work experience, a retraining program where adults can get practical experience. U of G placed 18 students in various departments to gain office experience.

Photo by David Thomas, PRI

Research

Not just a chip off the old block

by Owen Roberts,
Office of Research

Canadians are consuming more potato chips than ever — six pounds per capita per year, a 35-per-cent increase since the early 1980s. Their passion for light, crunchy chips bodes well for the success of Saginaw Gold, a new high-quality chipping and tablestock potato, which will be available to growers next spring.

Saginaw Gold is being released jointly by U of G, Michigan State University, Agriculture Canada and the Ontario Ministry of Agriculture and Food. Its ability to produce light-colored chips consistently has earned it top marks at Ontario regional potato processing trials over the past four years.

Saginaw Gold was developed by Prof. Robert Coffin of the Department of Horticultural Science, an Agriculture Canada researcher, along with Prof. Rick Yada, Food Science, and technician Mary Kay Keenan. "Saginaw Gold's low sugar levels means it stays light, even when stored and then fried for chips," says Coffin. Many potato varieties, when stored, fry dark and are therefore unsuitable for chips. "As well, it has an excellent taste, competitive yields and high dry matter content, all of which are important to chip processors."

Saginaw Gold's chronology spans three countries and nearly two decades. One of its primary parental lines was obtained from the Max Planck Institute in West Germany by Norman Thompson of Michigan State University.

In 1970, Thompson crossbred the German line with another at Michigan. One of the seedlings was dubbed MS002-171, which later became Saginaw Gold. The name refers to both the variety's gold flesh and Michigan's Saginaw Bay; the potato industry traditionally names

new varieties after a body of water near their place of development.

Thompson maintained the seedling in tests in Michigan and gave samples to U of G for evaluation. The potato breeding program at MSU was temporarily discontinued when Thompson retired, but at Guelph, Saginaw Gold's development was carried on by Gary Johnston, who handed over the research to Coffin when he retired in 1980.

Tests by Coffin and others, including Richard Chase, a potato specialist from MSU who has since collaborated on the generation of data required for registration, showed Saginaw Gold is an ideal dual-purpose tuber. On a visual level, where light color is the most important criterion for chips, it consistently scored equal to or better than Norchip, the most popular chipping variety. Saginaw Gold's yields were often 15 per cent higher than Norchip, and its dry matter content was comparable.

From a retail perspective, Saginaw Gold's pale yellow flesh — popularly described as "gold-fleshed" — has proven extremely popular with consumers. It is well-suited for home baking or boiling and produces excellent-quality french fries, although somewhat short in length compared to varieties normally used by the fast food trade.

A release paper on Saginaw Gold from Coffin, Yada, Keenan, Johnston and six others from Agriculture Canada, MSU and the Ontario Ministry of Agriculture and Food has been accepted for publication by the *American Potato Journal*.

Potato breeding and testing at Guelph is supported by Agriculture Canada, OMAF, the Ontario Potato Marketing Board, the Ontario Potato Cultivar Evaluation Association and the Canadian Potato Chip and Snack Food Association. □

The baby blues

by Mary Dickieson

Hormonal changes following childbirth can trigger postpartum depression, but marital intimacy and self-image may be the best predictors of whether or not a woman will develop the illness.

Prof. Margaret McKim, Family Studies, says sensitivity to hormonal change is only one of many factors — and the only biological factor — thought to cause postpartum depression. A crying baby, a husband who ignores wife and child, financial problems and a lack of reassurance from family and friends can also contribute to the onset and severity of the illness, she says.

Almost all women experience some form of postpartum depression following the birth of a child, regardless of age, socioeconomic status or education. Women delivering their third or fourth child are just as susceptible as first-time mothers, says McKim.

Levels of depression

For 70 per cent of women, depression takes the mild form of postpartum blues. Characterized by unexplained tearfulness, anxiety and irritability, the "blues" usually appear during the first week after delivery and may last eight to 10 days. This mild depression is the result of normal hormonal changes following childbirth.

One in five women suffers from the more severe postpartum depression, which can last up to a year. These mothers may lose interest in themselves and their families, be unable to perform normal household chores or have difficulty organizing their thoughts.

The most serious level of depression — postpartum psychosis — can lead to hallucinations and attempted suicide, but occurs in less than one per cent of women. A history of mental illness is often a contributing factor.

There is a definite relationship between premenstrual tension and postpartum depression, says McKim, but susceptibility to hormones seems to be more important than an increase in hormonal levels and is a predisposing factor only in the presence of other social and psychological problems. Research conducted by McKim

and graduate students in Family Studies indicates that a good marital relationship, confidence in parenting skills, a healthy baby and support from other family members are important elements in the adjustment to parenthood.

New parents are under a great deal of stress as they try to balance their new role with the demands of marriage, careers, families and running a household. Postpartum depression may be the result of emotional upset and stress, says McKim.

Take preventive action

The illness has only been treated seriously by the medical profession in the last 15 to 20 years, she says. "Many physicians still prescribe tranquilizers for both mother and infant despite the fact they don't work."

What does work is helping the depressed mother build up her confidence and self-image. Groups for new parents, telephone support lines and friendships with other women who have experienced the illness have proved successful, she says.

Prenatal classes may be the best place to take preventive action against postpartum depression. When offering workshops to prenatal instructors, McKim stresses the need to help couples identify the emotional support they will need after the delivery.

Most parents-to-be are excited about the new baby and concerned about the delivery, but don't anticipate having to deal with feelings of depression or disappointment, she says. Couples who routinely rely on their extended families for companionship can draw on those relationships to help them deal with a baby's illness or transportation problems. Other couples may need to cultivate friendships or make an effort to spend more time with each other.

Most prenatal instructors advise prospective parents to avoid stressful situations like changing jobs, moving into a new house or borrowing money, says McKim. Preparing in advance to handle the problems of infant nutrition, baby's crying and lack of sleep can also help to make the adjustment to parenthood easier. □

Committee on International Activities could be a stacked deck

It is appropriate that policies and procedures regarding the University's international involvements outside Canada are to be developed that allow reviews to be made of these involvements ("Senate Committee Proposed on International Activities," *At Guelph* Jan. 11.) Certainly we need such procedures, if they are effective in maintaining the University's ethical and academic standards.

For those of the University community who have criticized the University's technical assistance in "institutional strengthening" to the Suharto military regime of Indonesia, which has been responsible for the murder of an estimated 1,250,000 people in Indonesia and East Timor after its illegal military seizures of power in these countries, it is reassuring that the administration has recognized that there might be a problem in such cases.

The question now is whether the Standing Committee on International Activities, approved by Senate Jan. 17, will, in fact, be effective in preventing the University's direct aiding and abetting of regimes that are guilty of, for example, ongoing international and war crimes as these are defined by international law. If there is any clear possibility that the University could be so involved in complicity, then it ought not to assist these regimes, for example, in strengthening their apparatus of government.

But will the committee be effective in dealing with even such an extreme case?

Supposing the committee has members whose departments and colleagues have very strong interests in continuing the international involvement in question — interest in keeping their institutional places, status levels, advancement prospects, consulting fees, international connections and travel. Supposing, too, that the only direct on-site information available to the committee comes from these members, their departmental colleagues or others similarly involved.

How is the committee going to get a full, impartial and knowledgeable account of the situation? How is its membership going to avoid a combination of established self-interest and collegiality playing down the more unpleasant realities and playing up the reassuring ones?

The normal policy of ruling out such a built-in bias from a committee of review by conflict-of-interest guidelines seems not to have been applied in proposing the composition of this committee. The directors of the Centre for International Programs (CIP) and the University School of Rural Planning and Development are members of the committee, although it is precisely their departments that manage the international projects likely to come under the committee's scrutiny (e.g. the Sulawesi Regional Development Project in Indonesia). An impartial standing committee would rule out members with such an obvious conflict of interest.

Yet, even with an unprejudiced Standing Committee on International Activities, there will remain a problem of the committee getting impartial information on the contracts it reviews. In the case of the Sulawesi project, for example, who will provide the committee with on-site accounts? So far, the only such accounts have come from those directly involved in and funded by the project itself, and the only reviews and evaluations have come from the same people, or those hired by the same granting agency, the Canadian International Development Agency.

No genuinely external review or evaluation has ever been done of the project, and none has been provided for. The University and the committee are depending on information that is prepared by interested parties and that has not passed through the normal academic test of external assessment.

An example of this dependency and its problems is that when an external human rights body recently inquired about the University's involvement in assisting the Indonesia military dictatorship in Sulawesi, the University's president replied with a memorandum written by the director of CIP, which is the very office responsible for the project.

The University seems not to be seeking the independent information it requires to make an impartial judgment, and the committee is so far without the resources or provision for such information.

The solution to this problem is genuine independent evidence from a recognized expert in the area of concern. Amnesty International, Oxfam International or the Canada-Asia Working Group are such bodies and any would be willing to supply the committee with on-site information from Indonesia regarding the questions and issues the committee needs to examine. Without such an independent, external

source of information, the committee could be merely providing University sanction for one-sided, special-interest reports.

It is worth remembering that the Sulawesi project has passed through none of those academic checks we associate with scholarly standards. It was granted without tender or scholarly competition as a high-price contract for implementation of an already established program conforming to the plans of the Indonesia government. It had no independent input from U of G scholars in its construction. It functions under the control of administrative, not academic, departments within the University. And its publications and processes are subject to no academically appointed referee evaluation.

It is a well-known fact to those familiar with the project that the same functions could be performed by a multinational engineering corporation. It is not really an academic enterprise at all, but the reputable face a university

gives to it is of great value to the Suharto regime of Indonesia.

It is, in fact, perfectly consistent with what we know of the Sulawesi project that its fundamental effect is to strengthen the Indonesian military government's institutional powers to oppress its own people. Consider that the military authorities control the Sulawesi Regional Development Project, and that the University team of assistance by its own description operates merely "in execution" of this project.

Consider, as well, that the regime's "Law on Social Organizations" (ORMAS) forbids all criticism of its system of "national security" and "development," and that it obliges all organizations to recognize the military government's official ideology, *Pancasila*, as their sole controlling principle.

Finally, consider that the University team's overriding objective is "institutional strengthening" of government institutions in

such areas as mapping, database development, communications technology and management implementation, with no restricted conditions as to how this "infrastructural strengthening" is used.

It would be naive to think that this technical assistance to strengthen the military government was not increasing its powers to control and oppress the Indonesian people in outlying areas where it seeks to extend its authority and rule. It is disturbing that a new contract for U of G to geographically extend this assistance to military government is well in the works already.

Without consideration of these problems in the light of evidence from fully independent sources in the areas of concern, the Standing Committee on International Activities will not have a proper factual basis on which to make its judgments. It will be a stacked deck.

Prof. John McMurtry,
Philosophy.

Letters to the editor

University gives record amount to UW

On behalf of the United Way of Guelph and the campus committee, I would like to express our appreciation to everyone who contributed to the United Way canvass at U of G in 1988.

As of Jan. 15, we had raised \$108,300. Although this is slightly short of our goal of \$110,000, it is a record amount for the University — eight per cent more than last year. The goal for the United Way of Guelph was \$784,225, and a most successful campaign raised \$785,132 by Dec. 1, 1988.

Although the canvass is over, it is never too late to give. If, for some reason, you have been missed, pledge cards are available at Rathbush House, Ext. 3106.

I would like to give personal thanks to everyone who made a contribution to the campus campaign: the Carpentry Shop people who put up the thermometer outside Rathbush House; the individuals and departments who donated prizes for the incentive draw; the 150 people across campus who were canvassers, co-ordinators and committee members; Sandra Webster and *At Guelph*, who gave us constant support; the Central Student Association, which contributed \$5,000 for the first time; and, of course, all of you who donated generously to give much-needed help to many of the service agencies in our community.

Don McIntosh,
Chair, campus campaign committee.



All for bollards

Some time ago, I wrote to *At Guelph* about the increasing problem of people driving their cars along and over pedestrian walks, and I suggested that locking bollards be placed at entrances.

This is done at Lausanne University (see accompanying photograph), and I don't see why it can't be done here. If it were, it would allow access for those really needing it — they would have to get a key, get out of their cars and unlock the bollard — while preventing those people who are simply too lazy, too idle or too thoughtless from destroying the walks.

We used to have permanent bollards at the entrances to walkways; you can still see their decayed stumps in places. Personally, I would prefer that all bollards be permanent; any deliveries can be carried the few yards from the

roads to a building. But I am prepared to make compromises with our infatuation with the car. I would, in fact, prefer to see all car parks placed at least one kilometre from the University. It might improve the health of a majority of the people at this University if they had to get off their butts and take a little exercise.

In addition, in view of our infatuation with squeaky-clean air (no smoking), it would improve the quality of air around us not to have it continually polluted with carbon monoxide and other toxic poisons. No rat ever got cancer from inhaling car exhaust fumes; it died almost immediately from asphyxiation.

Prof. Michael Brookfield,
Land Resource Science.

Report on women in universities 'depressing'

After reading the Council of Ontario Universities report *Women in Ontario Universities* in *At Guelph* Jan. 11, I feel bound to make comment on this depressing report.

First, on the policies and programs that are in place at Ontario universities. At Brock University, where there is a sexual harassment policy, Mary Warner, a long-term staff member, was asked by Brock's president to give testimony in a sexual harassment case brought against a faculty member. She did, reluctantly, after being assured that the testimony would be confidential and that she had nothing to fear.

Warner consulted a lawyer and was advised that she should not give testimony because she had no backing if official assurances failed her. There is no staff union or association at Brock.

Warner gave testimony and experienced intense personal harassment that eventually led to her dismissal — she was escorted off campus by two senior administrators. The case is now before the courts and most university associations and unions, faculty and staff, have contributed to the legal fund in her name.

Second, on Guelph's employment equity co-ordinator. The University is still searching for one, but even when the position is filled, will it really mean anything?

When the employment equity incentive funds were initially offered by the provincial government to universities, I asked the then minister of colleges and universities which universities had taken advantage of the offer.

To my shame, Brock and Guelph were the only universities that did not initially apply for these funds. (OSIE declined, but their reason was different — they said they did not need to do much in employment equity as their record in hiring and promoting women was excellent.)

Guelph eventually accepted the funding offer and an employment equity program assistant was hired. I and a number of U of G women met with this person just days before she left last fall to go back to school. Since then, the University has been searching for what I understand will be two University appointments in employment equity. I am hoping for great things when these positions are filled.

Third, a comment on the COU report that says U of G has a policy that targets employees to attend management development seminars. What targeted employees and what management development seminars?

I know of no policy that targets women employees and encourages them to take management development training. The tuition waiver policy is a good one that was negotiated by staff groups, but it is no guarantee that it will open doors for women at Guelph. Ask the dozens of female staff who have earned degrees here and are still working in the lower-paid traditional women's occupations.

My comments are merely to illustrate that policies and procedures may be in place and language may be changed, but it is how women are actually treated that counts. I think that

COU might have got a better idea of the status of women at Ontario's universities if it had asked the women themselves how COU's recommendations have affected their opportunities for advancement.

Sheila Trainer,
Zoology.

Have your say . . .

At Guelph welcomes contributions from members of the University community.

Letters to the editor, faculty, staff and student activities, articles for "Forum" — the editorial section — and speeches are welcome. If you know someone who would make a good subject for a human interest article for the "Focus" column, give us a call.

Letters and editorials should be typed, double spaced and signed by the author. Each will be verified by a phone call. The executive editor reserves the right to select, edit and position all copy.

If you have ideas on how to make *At Guelph* a more informed and involved University community publication, call or write Public Relations and Information, Level 4, University Centre, Ext. 3864. O

International Training Division

by David Thomas

The International Training Division (ITD) of the University School of Continuing Education helps bring together the University and the world.

Teachers from Cameroon came to U of G to study management techniques and the role of women in development. Veterinarians from Indonesia came to study project management. Administrators from an agricultural college in China came to see how a Canadian institution is run.

The purpose of ITD is to provide short-term education for people from abroad who can't be served by traditional programs, says chair Liz Cockburn. The division works closely with the colleges, schools and the Centre for International Programs to design tailor-made programs for groups or individuals.

"One of the strengths of a University-wide focus is that we can bring together all the resources," says Cockburn. "Our division acts as a facilitator."

Prof. Terry Crowley, acting director of the University School of Continuing Education, says the division fits in with one of the thrusts of the University — increasing its international profile.

Programs are designed so that students will develop the necessary skills to handle problems in their own countries. "One of the things we're most involved with is training the trainers — providing skills that are easily transmittable to others," Cockburn says.

ITD gets requests for training not just from government, but from industry and non-government agencies as well. The division has had contracts with the Canadian International Development Agency (CIDA), the Canadian Commission for the United Nations Educational, Scientific and Cultural Organization (UNESCO), the UN Food and Agriculture Organization, the Asian Development Bank (ADB) and other organizations.

When a request is received for a training program, the division will:

- find out if the University has the expertise to mount the program;
- prepare a budget and ensure funding (because ITD works on a cost-recovery basis);
- work with faculty, professional staff and the clients to design the curriculum;
- deliver the program (which may be on-campus or away); and
- arrange an evaluation of the program.

ITD also works with other institutions, such as the Waterloo and Wellington boards of education, the Ryerson Polytechnical Institute, the Ontario Institute for Studies in Education and the Canadian Teachers' Federation to implement projects. "We're in a good position to get resources from other institutions to use in our programs," Cockburn says.

Many programs are initiated by the division

itself. Agendas are always discussed with the participants when they arrive. Schedules are flexible enough that changes the participants want to make can be accommodated.

With these resources at its disposal, ITD has conducted more than 20 programs since its inception in 1986. These projects include the following:

- Sponsored by Shaver Poultry, 21 people from 10 Latin American countries came to U of G in August to study, in Spanish, new developments in poultry science in such areas as management, genetics, nutrition and health. This was the first program conducted in co-operation with private industry.
- The Kalimantan Livestock Development Project Planning and Management Course brought seven veterinarians from Indonesia to spend the summer at U of G. They studied database management, principles of animal health management, budgeting and other management subjects. The course was funded by ADB.
- In conjunction with the Guelph-Yaounde Project, four women from Cameroon were at Guelph this past summer to learn about new management techniques for small enterprises, and to study the role of women in development. The program was funded by CIDA and the Canadian Commission for UNESCO.
- Five public servants from the Bakosurtanal Group, the Indonesian national co-ordination agency for surveys and mapping, attended U of G to learn about remote sensing and geographic information systems. They studied principles and applications of remote sensing, image processing, databases, computer graphics and computerization of spatial information. Funding was provided by ADB.
- A public servant from the ministry of education in Guyana was at Guelph for six months in 1988 to study agricultural education, which is a compulsory subject in Guyanese secondary schools. She learned about evaluation and delivery of programs.
- Two professors from the Sichuan Agricultural University in Sichuan province, China, visited U of G in September to meet with faculty, staff and graduate students at OVC to discuss research, equipment and new developments in veterinary pathology and immunology. They were sponsored by the Mennonite Central Committee.

An important future direction for the division is in the area of "the often under-recognized role of women in development," says Cockburn. She wants to develop more training programs for women, especially in agriculture.

There are seven people in ITD who make all this happen:

- Cockburn, a teacher, went to West Africa in 1969 when her husband accepted a position in Cameroon. She was employed by a teachers' college there, working with teachers to develop African reading materials for local schools.



The staff of the International Training Division, left to right: Jana Janakaran, Barbara Colter, Sandra Cairns, Amy

Machang'u, Liz Cockburn, seated, and Sue Pennant. Absent: Shen Hong.

Photo by David Thomas, PRI

After returning to Canada, she worked with international students at a community centre in Kitchener. She did an international development degree at U of G and a master's at OISE. Cockburn was technical adviser to the Guelph-Yaounde Project before becoming chair of ITD. She is currently on study leave to complete her doctorate.

- Sue Pennant, assistant to the chair, is new to U of G. She has been working on staff and as a volunteer, for 10 years with Oxfam Canada, lived and worked in Sudan, and worked in continuing education at the University of British Columbia. Pennant's academic background is in sociology and anthropology. She says her practical and academic experience is valuable in working in international development. "You have to be able to see problems from a human perspective," she says. She is filling in for Cockburn while she is on leave.
- Barbara Colter, administrative assistant, came to ITD in April 1988 after working in the Department of Economics. A U of G history graduate, she worked as a volunteer for UNICEF for 12 years as a school representative, and has played host to a number of international students. Colter says that's what got her interested in international development.
- Jana Janakaran, originally from Sri Lanka, has worked in crop production, extension, international development and training in Sri Lanka, Sierra Leone and Cameroon. He is developing, in conjunction with Independent Study, an agricultural diploma program for

Third World farmers and technical staff who don't have access to higher education. With ITD since August 1988, he enjoys working there because "there's a commitment to international development."

- Amy Machang'u is working part time with ITD on a project on women in development (WID). She is promoting the WID Backpack, a portable resource kit for development personnel. A veterinarian from Tanzania, Machang'u came to Guelph in September 1987, when her husband began working towards his PhD at OVC. She is also working on an educational seminar program for spouses of foreign graduate students.
- Shen Hong, a geography graduate student from China, is working part time with ITD doing translation and other administrative jobs relating to Chinese projects. She says the experience she's getting with the division complements her academic work in Chinese rural development. She took her first degree in agronomy, and worked as an editor for a scientific and technical publishing house before coming to Canada in September 1987.
- Sandra Cairns, program co-ordinator, was born in Africa and raised there and in France. She describes her background as "a mixed bag of architecture, journalism, geography and teaching." With ITD since August 1987, she says "this is the only job I've ever been in that after more than a year, I still look forward to it each morning. The quality of people I interact with everyday gives me some faith in the human race." O

Awards



Carr Scholarships of \$3,500 were presented recently to two U of G agriculture graduates who have chosen careers in farming. Larry Eurig of Mount Forest, who completed his B.Sc.(Agr.) last spring, is the recipient of the Samuel Leister Carr Scholarship. Ernie Naylor of Moncton, a 1988 graduate of the associate

diploma in agriculture program, received the William Park Carr Scholarship. Pictured above, from left to right, are OAC Dean Freeman McEwen, Ethel Carr, Naylor, Eurig and Prof. Don Blackburn, director of the diploma program.

Photo by OMAF



The Department of Psychology recently honored students with high academic standing at an awards presentation at the Faculty Club. Front row, from left to right, are Grant Brailsford of Fergus, Tracey Wiltshire of Brampton and Roderick Grant and Peter Selby of Guelph. Back row, left to right, Theodore Selles of Morrisville; Prof. Michael Matthews, chair of Psychology; Diann Vollick of Callanden; Richard Kennedy, Nancy Lizotte and Isabel

Eriksson of Guelph; Prof. Jim Mottin, Psychology's undergraduate studies co-ordinator; Laurie Pearson of Brantford, winner of the John E. Tong Award for the most outstanding graduate thesis of 1988; Prof. Rod Barron, Pearson's supervisor; and Prof. Harvey Marmurek, Psychology's graduate studies co-ordinator.

Photo by Herb Raucher, Photographic Services

Convocation parking

Parking lots P. 23/24 (Textiles building) and P. 44 (Johnston Hall) will be reserved for the use of guests attending winter convocation Feb. 3. Alternative parking for regular users can be found in lots P. 7, 19 (front section), 17, 48 and 14/15. Users with premium parking permits for P. 24 will be allowed to park in the designated premium parking zone.

Health Fair '89

Health Fair '89, sponsored by the Wellness Promotion Task Group, runs Feb. 6 and 7 from 10 a.m. to 4 p.m. in the University Centre courtyard. A holistic approach to health is the central philosophy behind the fair, which will feature booths and displays on AIDS, eating disorders, OHIP, massage, cancer, Weight Watchers, immunization, student health insurance, health food and women's issues.

Icons on display

The Faculty Club will feature an exhibition of "Icons of the Deep" by Liliyan Grubich Jan. 30 to March 3. An opening reception will be held Feb. 3 at 7:30 p.m.

OAC conferences well attended

OAC agricultural conferences in January drew some 600 participants from across Ontario to meet with specialists in such areas as field crops, forages, fish, deer and rural society. Thirty-six U of G faculty spoke at the conferences, along with representatives from the Ontario Ministry of Agriculture and Food and the agricultural industry. The programs are part of OAC's long-standing outreach and extension efforts, which are funded largely through OMAF.

Cabaret benefits hospital

A cabaret to benefit the St. Joseph's Hospital capital campaign will be held Feb. 18 at 8 p.m. at Guelph Place. It will feature love songs from Gilbert and Sullivan, musical comedies and operettas. Emcee is Norm Jary. Tickets are \$25 and are tax-deductible. For reservations, call 821-8998 or 821-1939.

Questions from Cameroon

The International Training Division, in collaboration with the Guelph-Yaounde Project, is presenting a noon-hour seminar series focusing on "Questions from Cameroon." On Jan. 30, Dr. Amy Machang'u will discuss "Women in Development Backpack." On Feb. 6, the topic is "Questions on Development Aid" with Sandra Cairns. Seminars are at noon in Room 132, MacKinnon building.

Violinist to perform

One of Canada's leading violinists, Moshe Hammer, will perform Feb. 12 at 3 p.m. at Chalmers United Church. Hammer will honor his former teacher, Jascha Heifetz, through his performance and anecdotes. Tickets are \$10 general, \$8 for seniors and students, and \$20 for families. They are available at the Carden Street Music Shop or at the door.

Noon-hour concert

The Thursday noon-hour concert Jan. 26 will feature the Brass Sinfonia Quintet, made up of five members of the brass section of the Kitchener-Waterloo Symphony Orchestra and the Canadian Chamber Ensemble. Members are John Tickner and Daniel Warren on trumpet, Nina Brickman on horn, Joseph Castello on trombone and Jane Noyes on tuba. Under the direction of Raffi Armenian, the quintet has toured Canada, the United States, South and Central America and Europe. Program I at 12:10 p.m. in Room 107, MacKinnon building, will consist of "Suite from the Monteregian Hills" by Morley Calvert, "Fugue in G minor (Little Fugue)" by Bach and "Four Outings for Brass" by Andre Previn. Program II at 1:10 p.m. will feature "Suite of Renaissance Dances" by Tylman Susato, "Hiplips II" by Leslie Pearson and "An Occasional Suite" by Morley Calvert. Admission is free.

Get it write!

Students looking for ideas on how to prepare a writing assignment are invited to attend "How to Write an Essay," a workshop sponsored by the writing centre in the Counselling and Student Resource Centre. Providing practical ideas on organizing and writing, the workshop will be held Feb. 7 and again March 7 from noon to 1 p.m. in Room 335, University Centre.

Murder mystery dinner

Faculty Club members are invited to attend a murder mystery dinner Feb. 17 at 7 p.m. Cost is \$15.50 per person. Reservations will close Feb. 10. Call 824-3150 or Ext. 8578.

Engravings exhibited

Banks's "Florilegium," an exhibit of copperplate engravings of plants collected on Capt. James Cook's first voyage around the world from 1768 to 1771, is on display on the main floor of the library until Feb. 10.

Family studies seminar

The Department of Family Studies seminar series begins Feb. 2 with Profs. Joan Norris and Marshall Fine, Family Studies, discussing "A Perceptual and Interactional Study of Inter-generational Relations." It begins at 2:10 p.m. in Room 233, FACS building.

Computing seminars

Today's topic in Computing Services' lunchtime discussion series is "Breaking the 640K Limit." It begins at 12:05 p.m. in Room 204, Computing Services. Next Wednesday, discussion will focus on "Diagnosing PC Hardware Problems."

Guided prayer

Local churches are planning a week of guided prayer, an opportunity for ecumenical prayer/faith sharing, Feb. 12 to 18. For more information and registration forms, call the University chaplain's office at Ext. 8909 or Ellice Oliver at 824-4177 between 9 a.m. and 5 p.m.

OVC seminars

The OVC seminar series continues Jan. 25 with David Galligan of the University of Pennsylvania discussing "Economic Aspects of Veterinary Nutritional Services," Jan. 26 with M.J. Van Der Maaten of the U.S. Department of Agriculture's National Animal Disease Centre in Ames, Iowa, on "Bovine Retroviruses," Jan. 27 with Norm Ducharme of Cornell University on "Teat Surgery in Dairy Cattle" and Feb. 1 with Prof. Ken Bateman, Population Medicine, on "Feedlot Health Management." All seminars are at 12:10 p.m. in Room 1438 (formerly 508), Clinical Studies building.

What's on at The Arboretum

The Arboretum's winter series of Sunday afternoon walks continues Jan. 29 with "Porcupines in the Arboretum" and Feb. 5 with "Voyage Beneath the Ice." Designed for families and beginners, the naturalist-led walks leave from The Arboretum Nature Centre at 2 p.m. On Feb. 11, The Arboretum will lead a night stalker's owl prow for adults and children over 9. Participants will car pool to known owl "hot spots" to learn about the behavior and ecology of owls and the kinds found in the Guelph area. Register for the owl prow at Ext. 3932.

Clarinet recital

The Guelph Chamber Music Society hosts clarinetist James Campbell, artistic director of the Festival of Sound, in a recital Feb. 5 at 3:30 p.m. at Chalmers United Church. Campbell, who has performed with the leading symphony orchestras in North America and has made many recordings, is recognized as Canada's leading clarinetist. Tickets are \$10 at the door. For families, the first ticket is \$10; the rest are \$5 each.

Counselling available

The Marriage and Family Therapy Centre in the Department of Family Studies offers professional counselling on marital, family, sexual and relationship issues. For information or an appointment, call Ext. 6335.

We've got their number

The University of Alberta is changing to a new telephone system as of Jan. 28. Although most locals will remain the same, the prefix changes to 492. The new general information number will be 492-3111.

Summer job fair

The annual summer job fair for students, sponsored by Career Services, will be held Jan. 26 from 10 a.m. to 3:30 p.m. in the University Centre courtyard. More than 40 employers will be on hand to discuss summer job opportunities available for students in all academic fields. For more information, call Ext. 2213.

Concert to honor Segal

The Department of Music will hold a concert to honor President Brian Segal and the University's 25th anniversary Feb. 25 at 8 p.m. at the Macdonald Stewart Art Centre. The concert will feature a variety of music, including works by Mozart, Brahms and Baroque composers, performed by mezzo-soprano Patricia Harton-McCord, soprano Elizabeth Neufeld, violist Dan Bush, pianist Leslie Kinton and organist Patricia Phillips. A new electronic composition by the University's composer-in-residence, Charles Wilson, will also be presented. Tickets are \$10 general, \$8 for students and seniors, and are available from Patricia Law, Department of Music, Ext. 3988. Seating space is limited. People are encouraged to order tickets by Jan. 27.

Citizenship classes offered

The Guelph and District Multicultural Centre offers citizenship development classes for people applying for Canadian citizenship. The classes begin Jan. 31 at 7:30 p.m. at the centre, 128 Woolwich St., Suite 203. They will cover the history, geography and government of Canada, and the responsibilities, rights and privileges of Canadian citizens. Cost is \$10. To register, call 836-2222.

Tropical night

World University Service of Canada is holding a tropical night Jan. 26 at 8 p.m. in the Faculty Club on Level 5 of the University Centre. The evening will feature African, reggae and calypso

music and dancing. Tickets are \$5 in advance, \$6 at the door, and are available from Dudley Gibbs at Ext. 2991, Don Amichand at Ext. 3954 or from any WUSC member.

Theatre in the Trees

The Arboretum's dinner theatre, Theatre in the Trees, is offering the Neil Simon comedy *I Ought to Be in Pictures*, directed by John Snowdon. Scheduled performances are Jan. 28, Feb. 4, 11, 18 and 25, March 4, 11 and 18, April 1, 15, 22 and 29, and May 6. Dinner is at 6:30 p.m.; the play begins at 8 p.m. Cost is \$29.50. Tickets are available at the University Centre box office, Ext. 3940.

Call for art submissions

Viewpoints, a regional art and craft exhibition to run in March, is open for submissions from artists and artisans residing in Wellington, Waterloo, Wentworth, Grey, Bruce, Halton and Dufferin counties. Two works may be submitted in any or all categories: painting, prints, drawings, sculpture, photography, video and film, glass, metal, ceramics, textiles, wood and jewelry. Works are to be submitted to the Macdonald Stewart Art Centre Feb. 10, 11 and 12 from noon to 5 p.m. All works will be insured while at the centre. Prizes totalling more than \$1,000 will be awarded March 2. Jury members are Prof. Ron Shuebrook, chair of the Department of Fine Art, and Arthur Handy, a local sculptor and ceramics instructor. There is an entry fee of \$2 per item submitted. For more information or an entry form, call the art centre at Ext. 3158.

WUSC fund-raising events

Other organizations working in international development may be better known, but World University Service of Canada (WUSC) plays an important role, too.

"We're one of the lesser-known organizations on campus," says Dudley Gibbs, concert manager in the Department of Music and chair of the local WUSC committee. "Its membership is small. But we hope that WUSC can make a positive contribution to helping the international community in a practical way."

That contribution comes from helping people. WUSC is sponsoring a South African couple who are at U of G on Commonwealth Secretariat scholarships. But the scholarships can't provide for everything, and that's where WUSC comes in, says Gibbs. The scholarships don't cover the cost of day care for the couple's children, for example, but WUSC was able to make arrangements with the Campus Co-op Day-Care Centre.

The committee also supports other international students and is setting up a registry and network for a homestay program, in which local families welcome foreign students when they first arrive and make them feel more at home here.

Contributing to public education about international development issues is also an

important function of WUSC's work. Gibbs says one of the committee's main areas of fund raising is aimed at sending a student to the annual WUSC seminar, a conference held in a different region of the world each year where 30 students from all over Canada can study development first hand. This year's seminar is being held in the Windward and Leeward Islands from June through August.

WUSC committees throughout Canada are also raising funds for education in strife-torn Mozambique and promoting a cross-country speaking tour by Graca Machel, the Mozambican minister of education. She is also the widow of the late president Samora Machel, who was killed in a plane crash in 1986 over South African territory. She is expected to speak in Hamilton next month.

Among upcoming fund-raising events is a tropical night Jan. 26 at 8 p.m. at the Faculty Club, featuring African, reggae and calypso music and dancing. Tickets are \$5 in advance or \$6 at the door and are available from any WUSC member. For more information, call Gibbs at Ext. 2991 or international student adviser Don Amichand at Ext. 3954.

A craft sale is also planned for later this winter. Watch "Coming Events" for further details. O



BOWL FOR BIG BROTHERS

Keith Taylor, left, Chris DeForest and Bruce Folkard of the Big Brothers Association of Guelph and Wellington County display the poster for the 14th annual Bowl for Millions campaign. The association is hoping to raise \$35,000 in the drive, which runs from Feb. 4 to 18. DeForest and his big brother, Folkard, are the honorary chairs of this year's drive. The two have already solicited more than \$1,500 in

pledges. Response from local businesses and groups has been good, campaign chair Taylor told guests at a kick-off reception held at the Whippettree Jan. 16. Big Brothers has more than 100 boys paired in Wellington County, with more than 30 still waiting. Anyone wishing to enter a team to bowl for millions or to make a pledge should contact Big Brothers at 824-5154.

Photo by David Thomas, PRI

Coming events

WEDNESDAY, Jan. 25

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Feminist and Christian, 10:10 a.m., UC 533; Ecumenical Holy Communion, 12:10 p.m., UC 533; Immanuel Christian Fellowship, 5 to 7 p.m., 287 Water St.; Community Fellowship, 5 to 7 p.m., Chaplain's Lounge, UC Level 3.

Concert - Terry Kelly, noon, UC courtyard.

Computing Seminar - "Breaking the 640KB Limit," 12:05 p.m., Computing Services 204.

OVC Seminar - "Economic Aspects of Veterinary Nutritional Services," David Galligan, 12:10 p.m., Clinical Studies 1438 (508).

Biochemistry Seminar - "Malignant Hyperthermia Susceptibility: Hypersensitive CA2+ Release Channel of Sarcoplasmic Reticulum," Peter O'Brien, 12:10 p.m., MacNaughton 222.

Art Lecture - "University of Guelph Fine Art Graduates Exhibition," Ingrid Jenkner, 2 p.m., Macdonald Stewart Art Centre.

Continuing Education - "You are What you Eat," 7 p.m., 10 weeks, register at Ext. 3956/7.

THURSDAY, Jan. 26

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Relationships: The Central Concern of Jesus, 4 p.m., UC 335; Exploration in Meditative Prayer, 5:10 p.m., UC 533; Social Evening, 6 to 9 p.m., UC 334/335.

MacFACS Alumni Association - Coffee Party for FACS students, 10 a.m. to noon, FACS student lounge.

Career Services - Summer Job Fair, 10 a.m. to 3:30 p.m., UC courtyard.

Pathology Seminar - "Pathogenesis of Liver Neoplasms in Fish from Polluted Sites in Lake Ontario," G.M. Kirby, 11:10 a.m., Pathology 220.

Concert - The Brass Sinfonia Quintet, noon, MacKinnon 107, free.

OVC Seminar - "Bovine Retroviruses," M.J. Van Der Maaten, 12:10 p.m., Clinical Studies 1438 (508).

Music - WUSC Tropical Night, 8 p.m., Faculty Club, \$5 advance, \$6 at the door.

FRIDAY, Jan. 27

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 8:10 a.m., UC 533.

OVC Seminar - "Teat Surgery in Dairy Cattle," Norm Ducharme, 12:10 p.m., Clinical Studies 1438 (508).

Systematics Seminar Series - "Linkage Group Conservation in *Drosophila*," Art Hilliker, 3:10 p.m., Animal Science 141.

Men's Volleyball - Vs Waterloo, 7:47 p.m., Athletics Centre, \$2.

Humanities Association - "Landscape Architecture - Art or Science?" Jim Taylor, 8 p.m., MacKinnon 114, non-members \$5, students free.

SATURDAY, Jan. 28

Continuing Education - "Word Perfect I," 9:30 a.m. to 4:30 p.m., register at Ext. 3956/7.

Volleyball - Alumni Scrimmage, 2 p.m., Athletics Centre.

Dinner Theatre - Theatre in the Trees, *I Ought to Be in Pictures*, 6:30 p.m., Arboretum Centre, \$29.50.

SUNDAY, Jan. 29

Worship - Morning Worship Service, University Bible Studies, 9 a.m., UC 441; Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry, 8 p.m., UC 533.

Children's Concert - Eric Nagler, 1 p.m., War Memorial Hall, \$6.50.

The Arboretum - Sunday Afternoon Walk, "Porcupines in The Arboretum," 2 p.m., Nature Centre.

MONDAY, Jan. 30

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 5:10 p.m., UC 533.

Information Technology Seminar - "SAS/GRAPH," 10 a.m. to noon, Computing Services 204, register at Ext. 6568.

Seminar - "Questions from Cameroon - Women in Development Backpack," Amy Machang'u, noon, MacKinnon 132.

Human Biology Seminar - "Neural Control of Gene Expression in Skeletal Muscle," Ekkehard Leberer, 12:10 p.m., Human Biology 108.

TUESDAY, Jan. 31

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 12:10 p.m., UC 533; Inquiry into Catholicism, 4 p.m., UC 334; Faithfully Curious, 5 p.m., UC 335.

Our World - "Speaking our Peace," 12:10 p.m., UC 441.

Physics Seminar - "The NGC 5128 Globular Cluster System - An Overview," G. Harris, 4 p.m., MacNaughton 113.

Continuing Education - "Wine Appreciation II," 11 weeks, "Introduction to Lotus 1-2-3," three weeks, 7 p.m., register at Ext. 3956/7.

CUSO - Information Meeting, 7:30 p.m., UC 440.

Women's Volleyball - Vs Western, 8 p.m., Athletics Centre.

WEDNESDAY, Feb. 1

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Feminist and Christian, 10:10 a.m., UC 533; Ecumenical Holy Communion, 12:10 p.m., UC 533; Immanuel Christian Fellowship, 5 to 7 p.m., 287 Water St.; Community Fellowship, 5 to 7 p.m., Chaplain's Lounge, UC Level 3.

Computing Seminar - "Desktop Publishing I - IBM PC Solutions," 12:05 p.m., Computing Services 204.

Biochemistry Seminar - "Recent Studies on the Characterization of a Human Gene Required for DNA Replication," Rose Sheinin, 12:10 p.m., MacNaughton 222.

OVC Seminar - "Feedlot Health Management," Ken Bateman, 12:10 p.m., Clinical Studies 1438 (508).

25th Anniversary - Achievers Lecture Series, Roberta Bondar, 5 p.m., MacNaughton 105.

Continuing Education - "Essential Mathematics for Math Phobics," 7 p.m., four weeks; "Zen, Some Western Philosophies & Who Am I Anyway?" 7:30 p.m., six weeks, register at Ext. 3956/7.

THURSDAY, Feb. 2

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Relationships: The Central Concern of Jesus, 4 p.m., UC 335; Exploration in Meditative Prayer, 5:10 p.m., UC 533; Social Evening, 6 to 9 p.m., UC 334/335.

Information Technology Seminar - "Overview of Communications Services on Campus," 10 a.m. to noon, Computing Services 204, register at Ext. 6568.

Pathology Seminar - "Multifocal Inflammatory CNS Disease in Dogs: A Clinical, Pathological Study," E. Scott, 11:10 a.m., Pathology 220.

Concert - Faculty Recital - Mel Burke, saxophone; Dianne Nichols, piano; and Howard Spring, guitar, 12:10 and 1:10 p.m., MacKinnon 107, free.

Family Studies Seminar - "Perceptual and Interactional Study of Intergenerational Relations," Joan Norris and Marshall Fine, 2:10 p.m., FACS 233.

Lecture - "Practical Applications of Fractal Geometry," Benoit Mandelbrot, 3 p.m., War Memorial Hall.

Continuing Education - "How to Write a Short Story," eight weeks; "Desktop Publishing," six weeks, 7 p.m., register at Ext. 3956/7.

FRIDAY, Feb. 3

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 8:10 a.m., UC 533.

Convocation - PhD, D.V.Sc., MA, M.Sc., MLA, DVM, BA and graduate diploma, 10 a.m.; B.A.Sc., B.Com., B.Sc., B.Sc.(H.K.), B.Sc.(Agr.), B.Sc.(Eng.) and associate diploma in agriculture, 2:30 p.m., War Memorial Hall.

Information Technology Seminar - "PC/SAS," 10 a.m. to noon, Computing Services 204, register at Ext. 6568.

Continuing Education - "Wine Appreciation III," 7 p.m., six weeks, register at Ext. 3956/7.

SATURDAY, Feb. 4

Continuing Education - "Introduction to Lotus 1-2-3," 9:30 a.m. to 4:30 p.m., register at Ext. 3956/7.

Dinner Theatre - Theatre in the Trees, *I Ought to Be in Pictures*, 6:30 p.m., Arboretum Centre, \$29.50.

SUNDAY, Feb. 5

Worship - Morning Worship Service, University Bible Studies, 9 a.m., UC 441; Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry, 8 p.m., UC 533.

The Arboretum - Sunday Afternoon Walk, "Voyage Beneath the Ice," 2 p.m., Nature Centre.

Concert - Guelph Youth Orchestra, 3 p.m., Arboretum Centre, ticket information 823-5298.

MONDAY, Feb. 6

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 5:10 p.m., UC 533.

Information Technology Seminar - "Introduction to NetNorth," 10 a.m. to noon, Computing Services 204, register at Ext. 6568.

Health Fair '89 - Booths, Displays, 10 a.m. to 4 p.m., UC courtyard.

Seminar - "Questions from Cameroon - Questions on Development Aid," Sandra Cairns, noon, MacKinnon 132.

Continuing Education - "Chess... Art, Science or Sport?" 7 p.m., eight weeks, register at Ext. 3956/7.

Faith and Agriculture Series - "Drought '88 - Our Food System on the Brink," Elbert van Donkersgoed, 8 p.m., MacKinnon 311.

TUESDAY, Feb. 7

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 12:10 p.m., UC 533; Inquiry into Catholicism, 4 p.m., UC 334; Faithfully Curious, 5 p.m., UC 335.

Health Fair '89 - Booths, Displays, 10 a.m. to 4 p.m., UC courtyard.

Writing Workshop - "How to Write an Essay," noon, UC 335.

Our World - "Hurricane Relief for Nicaragua," 12:10 p.m., UC 441.

Physics Seminar - "Cosmic Strings," A. Albrecht, 4 p.m., MacNaughton 113.

Continuing Education - "Exploring Watercolors," eight weeks; "Good Graphics," six weeks, 7 p.m., register at Ext. 3956/7.

WEDNESDAY, Feb. 8

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Feminist and Christian, 10:10 a.m., UC 533; Catholic Mass, 12:10 p.m., UC 103; Ecumenical Holy Communion, 12:10 p.m., UC 533; Community Fellowship, 5 to 7 p.m., Chaplain's Lounge, UC Level 3; Immanuel Christian Fellowship, 5 to 7 p.m., 287 Water St.



ART GRADUATES EXHIBIT

Thirty-one U of G fine art graduates from the last 20 years are exhibiting works at the Macdonald Stewart Art Centre until Feb. 26, as part of the University's 25th anniversary celebrations. Among those at the reception to open the exhibit Jan. 19 were, left to right, President Brian Segal; Prof. Ron Shuebrook,

chair of the Department of Fine Art; Kathryn Dain, Arts '79; Judith Nasby, director of the art centre; Patrick Moore, Arts '79; Les Drysdale, Arts '84; Nicole Collins, Arts '88; David Murray, dean of the College of Arts; and Stu Oxley, Arts '78.

Photo by David Thomas, PRI

Recent graduates pledge

When U of G launched its \$60-million capital campaign in 1986, the Department of Alumni Affairs and Development employed IDC Canada to initiate a phone mail program to generate support from University alumni.

The program was such a success that Guelph has decided to continue the fund-raising effort in-house under a new banner, the Advancement Support Centre (ASC), with Susan Lawrenson as co-ordinator.

Lawrenson launched Phase II of ASC last August with the help of two full-time staff, six clerical staff and 20 student callers. Over the next three months, they contacted alumni who had graduated in 1987 and 1988.

The response from those alumni has been overwhelming, says Lawrenson. They have made more than \$140,000 in pledges towards *The Campaign*.

Alumni from other class years have also been contacted, bringing funds raised through the ASC program in Phase II to more than \$290,000. The program boasts a participation rate of 38 per cent and an average gift of \$178.

Lawrenson attributes the success of the program to the dedicated efforts of the student callers who contact alumni four nights a week. The students receive an hourly wage and incentives based on fund-raising performance.

Since September, the following students have surpassed personal milestones by raising at least \$10,000 for *The Campaign*: John Cairney, Joanne Weyman, Kyle Janzen, Tricia Forani, Wendy Nederpel, Jeff Thorsteinson, Michelle Broere, Linda Carroll, Marilyn Payne, Helen D'Oliveira,

all College of Social Science students; Linda Allan and Michelle Feres, College of Arts; Mary Stos, College of Biological Science; and John Armes, FACS.

The ASC program is continuing to raise funds for the capital campaign this year. If you would like to know more about ASC or wish to become a caller, call Lawrenson at Ext. 8200. O

Obituaries

University flags flew at half mast this week to mourn the death of two students.

Rhonda Lumsden

Rhonda Lumsden of Lombardi, a B.A.Sc. applied human nutrition student in the College of Family and Consumer Studies, died of cancer Jan. 12. She is survived by her parents, Shirley and Ron, and two brothers, Randy and Ricky. Two of her relatives are U of G employees: an aunt, Sharon Popkey, Office of the Registrar, and an uncle, Prof. Tim Lumsden, Pathology.

Paula Hamilton

Paula Hamilton of Guelph, a College of Arts student, died Jan. 19 of an aneurysm. She is survived by her parents, Margaret and Rob, and two sisters, Susan and Karen (Barber). O



Cover:

Take care of the pennies and the dollars will take care of themselves, say five members of the Veterinary Teaching Hospital surgery staff who have won an award for cost-saving suggestions. Left to right, back row: Helen Scott and Sue Kinsella. Front row: Judy Cullen, Stephanie Douthwaite and Shirley Inglis. (See story, page 3.)

Photo by Tim Sultwan, OVC.

Inside:

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President Brian Segal, centre, spoke to the Professional Staff Association Jan. 24 on a philosophy of service. With him are Kath Beaven, Centre for International Programs,

president of the PSA, left, and Laurie Malleau, Alumni Affairs and Development, PSA member-at-large.

Photo by David Thomas, PRI

Service revisited:

Let's look at how we accommodate our customers: Segal

Every organization should look at ways to enhance its effectiveness, says President Brian Segal.

Addressing staff at a brown bag lunch sponsored by the Professional Staff Association Jan. 24, Segal said one should never be complacent about "what we do, why we do it, who we hope to benefit and who ought to benefit from the work we do."

He told the audience that every unit on campus should evaluate its services and its bureaucratic processes to determine if that service is as beneficial and efficient as it should be. "Others have argued that it is not inappropriate for a university, like other institutions, to increase the process through which the organizational health improves all the time," he said.

There is intensive, regular evaluation of faculty and academic programs, but similar processes do not take place in the rest of the University. Segal said he wants to encourage evaluative processes, not in an aggressive, mean-spirited way, but rather to establish some accountability for self-evaluation.

"I think individual units should be asked to

take a hard look at what their objectives are, how they go about serving those objectives, who their clients are, how satisfied their customers are, and what changes they need to make in order to better accommodate the customers they serve."

As an example, Segal suggested that units should look at how much paperwork they produce and how accessible they are. Being closed at lunch time, for instance, can make service inconvenient for clients.

He also stressed the need for good lines of communication within and among the different parts of the University. "We all need some sort of organizational process that will allow for much greater feedback, either within a particular organizational unit, or within the University itself."

Everyone on campus should consider "the expectations we have for receiving a service, and the expectations that we give about when and how a service will be delivered," said Segal. "In the process of examining how we serve other units of the University, we also have to look at how we communicate about that level of service." □

Wood named employment and educational equity officer

Prof. Janet Wood of the Department of Chemistry and Biochemistry and the Guelph-Waterloo Centre for Graduate Work in Chemistry has been named the University's employment and educational equity coordinator, President Brian Segal announced Jan. 26.

The appointment follows an extensive search that included strong involvement from the University's Employment and Educational Equity Advisory Committee (EEEAC).

Wood, who will assume the position May 1 for a two-year term, has been seconded from Chemistry and Biochemistry. She will devote 50 per cent of her time to the position and the other 50 per cent to a research project in the area of bienergetics.

She will report directly to the president and will contribute to the senior management process of the University as a member of the President's Advisory Council.

Wood will be responsible for the long-range planning, development and implementation and evaluation of policies directed at providing equal opportunity in employment and education for all groups in the University community, but particularly for women.

She will work closely with the Personnel Department and the EEEAC, which consists of members of the former presidential advisory committee on equity.

In making the announcement, Segal said he is "delighted with Dr. Wood's appointment. She will bring strong commitment, energy, rationality and vision to the position."

Wood says the position appeals to her because she has been concerned with women's issues for many years and has been increasingly active in supporting people who encounter difficulties.

"I am delighted with the very strong support Dr. Segal is giving to our efforts to achieve employment and educational equity on campus," says Wood. She sees the new position as an opportunity to effect change within the



Prof. Janet Wood. Photo by David Thomas, PRI

University and for the University to show leadership in the community.

Wood joined the University in 1977 as assistant professor in the then Department of Chemistry. In 1982, she was appointed associate professor in the newly named Department of Chemistry and Biochemistry and became professor in 1988.

With many publications to her credit, Wood has taught both undergraduate and graduate students. She is a member of the U of G Faculty Association's status of women committee and is also a founding member of Guelph Women and Science.

She received her B.Sc. in biochemistry in 1969 from the University of Victoria and her PhD in biochemistry in 1972 from the University of Edinburgh. Her thesis title was "A New Approach to the Study of DNA-Protein Interrelationships in Calf Thymus Nuclei."

Watch for an in-depth interview with Wood in an upcoming issue of *At Guelph*. □

Get to know the University

New employees who want to find out more about the University are invited to attend an employee orientation program Feb. 20.

Employment Services and Training in the Personnel Department is offering the seminar for permanent full-time employees who have recently been hired and want to become more familiar with the campus and the way it works.

People attending the session will get an overview of the history of the University and its organizational structure, University financing, employee pensions and benefits coverage, safety and security in the workplace, operation of the University's communication systems and ser-

vices. It's a formal but relaxed seminar, with lots of opportunities for questions, says Cal Swegles, manager of Employment Services and Training.

Although the program is geared to new employees, long-term faculty and staff who want to learn more about the University are also welcome. The session is free, and registration is on a first-come, first-served basis.

Those wishing to register for the program, which begins at 1:30 p.m. in Room 441 of the University Centre, should call Employment Training and Services at Ext. 3059 or 6598 starting Feb. 2. □

Winter convocation

U of G will honor world-renowned mathematician Benoit Mandelbrot and Canadian business executive Alan Marchment, a former member of the Board of Governors, during winter convocation ceremonies this Friday.

Mandelbrot will receive an honorary doctor of science degree at the 10 a.m. ceremony in War Memorial Hall and will address graduates receiving the doctor of philosophy, doctor of veterinary science, master of arts, master of science, master of landscape architecture, doctor of veterinary science, bachelor of arts and the graduate diploma.

Marchment will be named a fellow of the University at the 2:30 p.m. ceremony and will deliver the convocation address. Degrees and diplomas will be presented to graduates of the bachelor of applied science, bachelor of commerce, bachelor of science, bachelor of science in human kinetics, bachelor of science in agriculture, bachelor of science in engineering and the associate diploma in agriculture programs.

Following both ceremonies, a reception for the graduates and their families will be held in Peter Clark Hall. □

Anniversary celebrations

February

- Feb. 1 — **Achievers Series**, astronaut Roberta Bondar, 5 p.m. Room 105, MacNaughton building.
- Feb. 2 — **Physical Science Lecture**, Dr. Benoit Mandelbrot, 3 p.m., War Memorial Hall.
- Feb. 6 — **Our Common Future**, "Sustainable Development: The Myths of Hunger, the University Challenge," Brian Segal and Joseph Collins, 7:30 p.m., The Arboretum.
- Feb. 14 — **Science Noon**, "The Greenhouse Effect: Is it Really Happening?" Terry Gillespie, noon, War Memorial Hall.
- Feb. 15 — **Achievers Series**, lawyer Peter Anderson, 5 p.m., Room 103, University Centre; **Our Common Future**, "Sustainable Development: What is It? Three Views — Legal, Native and Women," Ralph Osterwald, Jennifer Sells and Thom Alcoze, 7:30 p.m., The Arboretum.



- Feb. 21 — **Science Noon**, "Marine Mammals and Man: Conflict and Competition," Keith Ronald, noon, War Memorial Hall.
- Feb. 22 — **Achievers Series**, zoo manager Michael Hackenberger, 5 p.m., Room 103, University Centre; **Our Common Future**, "Sustainable Development: Planning and Management Challenges," John Friedmann and Douglas Hoffman, 7:30 p.m., The Arboretum.
- Feb. 28 — **Science Noon**, "How Science Has Changed Agriculture," Clayton Switzer, noon, War Memorial Hall.

Briefly

Our common future

"Our Common Future," a free discussion series on sustainable development, begins Feb. 6 at 7:30 p.m. at The Arboretum. Guest speakers President Brian Segal and Joseph Collins, co-founder of Food First of San Francisco, will discuss "The Myths of Hunger: The University Challenge."

Video system on display

The advanced interactive video (AIV) information retrieval and delivery system developed by the BBC will remain in the library for personal use and demonstration until Feb. 16. The two "Domesday Project" videodiscs are still here, and "Ecodisc," which was not present for the original demonstration Jan. 10, is now available. "Ecodisc" simulates a problem-solving situation in the management of a real nature reserve. Personal use of the AIV system can be arranged through the library information desk, Ext. 3617. Group demonstrations can be arranged through Bernard Katz, Ext. 3628.

Gerontology seminar series

The Gerontology Research Centre begins its winter seminar series Feb. 7 with Prof. Donna Woolcott, Family Studies, discussing "A Study of the Effects of an Intervention Program on the Nutritional Status of a Selected Group of Low-Income Elderly." It begins at 12:10 p.m. in Room 335, University Centre.

Charity pancakes

The HAFA student main council is holding a charity pancake breakfast Feb. 6 to benefit Canine Vision Canada, an organization that provides guide dogs for the visually impaired. The breakfast will run from 11 a.m. to 2 p.m. in the HAFA Restaurant, HAFA building. Cost is \$3.

WordPerfect for beginners

The University Centre box office and word processing centre is offering a WordPerfect hands-on course for beginners Sunday afternoons from 1 to 4 p.m. Cost is \$25 for students, \$40 for non-students. For more information or to register, call Ext. 3940.

At Guelph

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Noon-hour concert

Guest performers in the Thursday noon-hour concert Feb. 2 are Department of Music faculty Mel Burke on saxophone and Howard Spring on guitar, with piano accompanist Dianne Nichols.

Program I will feature Burke and Nichols performing "Sonata" by Paul Creston, "Sonata in E Flat" by Bach, "Etudes-Caprices" by Eugene Bozza and "Scaramouche" by Darius Milhaud. Program II will feature Spring performing "Nuages" by Django Reinhardt, "Mercy, Mercy" by Joe Zawinal, "Stella by Starlight" by Victor Young/Ned Washington and "All the Things You Are" by Jerome Kern. During the last segment of the program, the three musicians will present "Straight No Chaser" by Thelonius Monk, "Nica's Dream" by Horace Silver, "Autumn Leaves" by Johnny Mercer and "Oleo" by Sonny Rollins.

The Feb. 9 concert offers the Essex Winds Quintet. Formed in 1981, the quintet consists of the principal wind players from the Windsor Symphony on flute, oboe, clarinet, bassoon and French horn. Program I will consist of "Quintet in B Flat Major" by Franz Danzi and "Kleine Kammermusik für Fünf Bläser" by Paul Hindemith. Program II will feature "La Cheminée du Roi René" (Suite for Woodwind Quintet) by Darius Milhaud and "Quintette for Winds" by Jacques Hétu. The concerts are at 12:10 and 1:10 p.m. in Room 107, MacKinnon building. Admission is free.

Salute to the lute

The Department of Music will host a lecture and demonstration by Toronto lutenist Terry McKenna Feb. 7 at 12:10 p.m. in Room 203, MacKinnon building. McKenna will display various styles of music, including pieces written in 16th-century Italy and music from Renaissance England. Admission is free.

Seminar on Soviet links

The Centre for International Programs is holding a seminar on the Eastern Europe-U.S.S.R. Linkages Program with U of G Feb. 14 at 4 p.m. in Room 316, MacKinnon building. The seminar will be an open forum to explore current associations, assess the rationale and feasibility for linkage programs and develop strategies that could put a program into operation. President Brian Segal will attend the seminar. If you plan to attend, call Bonnie Spall at Ext. 3958.

Fete Romantique winner

Fourth-year U of G student Kimberley Peckham-Watt of Guelph is the first-prize winner in the Guelph Arts Council's Fete Romantique fund-raising draw. She has won a six-course gourmet meal in a Guelph heritage home for herself and five guests, complete with maitre d', French maid and wine steward. A number of U of G faculty and staff were also prize winners in the draw, which raised more than \$12,000 for the arts council.

Systematics seminar series

The Interdepartmental Systematics Group's seminar series continues Feb. 10 with Prof. Susan Pfeiffer, Department of Human Kinetics, discussing "Inclusive Fitness and Adaptive Significance of Longevity in Humans." The seminar begins at 3:10 p.m. in Room 141 of the Animal Science building.

Shuffle Demons perform

The University Centre and the College of Social Science student government present the Shuffle Demons in concert Feb. 2 at 9 p.m. in Peter Clark Hall. The five-piece Toronto group presents a blend of styles including rap, blues, funk, swing, country and Latin tunes, as well as TV and movie themes, rock classics and jazz standards. Tickets are \$5.50 in advance at the University Centre box office or \$6 at the door. The event is open to members of the University community and their registered guests.

Theatre in the Trees

The Arboretum's dinner theatre, Theatre in the Trees, is offering the Neil Simon comedy *I Ought to Be in Pictures*, directed by John Snowdon. Scheduled performances this month are Feb. 4, 11, 18 and 25. Dinner begins at 6:30 p.m.; cost is \$29.50. Tickets are available at the University Centre box office, Ext. 3940.

Send in the clowns

The annual Valentine's Day balloon sale sponsored by the University Catholic community is Feb. 7 to 10. Orders can be placed Feb. 8 in the MacKinnon building foyer, Feb. 8 in the

MacNaughton building foyer and Feb. 9 and 10 in the University Centre. Balloons will be delivered by clowns anywhere on campus Feb. 9 and 10. Cost is \$2 per balloon, \$10 per half dozen and \$18 per dozen.

Accommodation available

Visitors to the Guelph area this spring and summer can rent accommodation in U of G residences. Rooms are available from April 21 to Aug. 19 at a cost of \$20 for a single and \$27 for a double. For more information and reservations, call Ext. 3045.

Bon appetit!

As part of a new course in the history and culture of French cuisine, the School of Hotel and Food Administration will be offering six French theme meals this semester. The themes are "Foods from Provence" Feb. 10, "Nouvelle Cuisine" Feb. 17, "Dine in the Style of Paul Bocuse" Feb. 24, "Foods from the Province of Champagne" March 3, "Foods from the Savoie" March 10 and "Louisiana Cajun Cooking" March 17. Meals will be in the \$20 to \$25 price range and will begin at 6:30 p.m. To reserve, call Ext. 8116.

Computing seminars

Today's topic in Computing Services' lunch-time discussion series is "Diagnosing PC Hardware Problems." It begins at 12:05 p.m. in Room 204, Computing Services. Next Wednesday, discussion will focus on "Statistical Packages."

OCUFA names new director

The Ontario Confederation of University Faculty Associations has appointed lawyer Marion Perrin as its executive director, effective Feb. 1. She comes to the position from the arbitration department of the Ontario Nurses Association. She replaces Howard Epstein, who vacated the position last September.

Road to recovery

Nervous? Anxious? Fearful? Depressed? Recovery, Inc., a community mental health organization, offers a self-help method of mental health through will-training. Recovery meets Mondays at 8 p.m. at First Baptist Church and Wednesdays at 8 p.m. at Dublin Street United Church. For more information, call 824-2899.

What's on at The Arboretum

The Arboretum's winter series of Sunday afternoon walks continues Feb. 5 with "Voyage Beneath the Ice" and Feb. 12 with "Squirrels." Designed for families and beginners, the naturalist-led walks leave from The Arboretum Nature Centre at 2 p.m. On Feb. 11, The Arboretum will lead a night stalker's owl prow for adults and children over 9. Register for the owl prow at Ext. 3932.

Violinist to perform

One of Canada's leading violinists, Moshe Hammer, will perform Feb. 12 at 3 p.m. at Chalmers United Church. Hammer will honor his former teacher, Jascha Heifetz, through his performance and anecdotes. Tickets are \$10

general, \$8 for seniors and students, and \$20 for families. They are available at the Carden Street Music Shop or at the door.

CSRC offers self-help workshops

The Counselling and Student Resource Centre is offering a series of self-help workshops and information sessions during the winter semester. They will be held in Room 318 of the University Centre in the CSRC area. The series begins Feb. 7 at noon with a general information session on eating disorders. On Feb. 8, a three-hour workshop on communication, focusing on the arts of listening and assertiveness, begins at 7 p.m. Registration for the workshop is limited. For more information or to register, call Ext. 3245.

OVC seminars

The OVC seminar series continues today with Prof. Ken Bateman, Population Medicine, discussing "Feedlot Health Management" and Feb. 8 with Dr. W.R. "Twink" Allen, director of the Thoroughbred Breeders Association's equine fertility unit, Newmarket and Cambridge, discussing "Recent Advances in the Endocrinological and Immunological Aspects of Reproduction in the Mare." The seminars are at 12:10 p.m. in Room 1438 (formerly 508), Clinical Studies building.

Law and apartheid

The Human Rights Research and Education Centre and the faculty of law at the University of Ottawa are hosting a working forum on "Law and Apartheid" Feb. 10 to 12. Cost is \$30 general, \$15 for students and people with low incomes. For more information, call 613-564-3492.

Awards

Prof. Jim Stevens and four scientists at the Chalmers University of Technology in Sweden have received the Swedish Innovation Cup for their development of "smart windows" that can regulate the transmission of radiant energy. The prize is given annually to recognize innovative research. Steven shares the prize with Chalmers faculty Claes Granqvist and Tord Eriksson and graduate students Stefan Svensson and Anne Andersson.

Gertrude Hurnik, manager of the Arkell Poultry Research Centre, Department of Animal and Poultry Science, has been awarded the Sigma Xi award for outstanding support of research.

An OAC liaison handbook that was sent out to high schools across Ontario last year to highlight new directions at the college has placed first in a national competition sponsored by the Canadian Agri-Marketing Association. It won in the category "company brochures or annual reports." The interior of the publication was designed and written by Barrow Communications of Guelph; the cover was designed on campus by Publication and Printing Services. Judging was based on clarity, interest, believability, overall tone and eye appeal, and the success of the publication in achieving its goal. O



Scholarships funded by members of the Canadian food service industry were awarded recently to students in the School of Hotel and Food Administration. Pictured at the awards presentation from left to right, front row, are: John Douglas Jenkinson, winner of the \$600 Canadian Hospitality Foundation/Ontario Chinese Restaurant Association Scholarship; Prof. Cathy Ralston; Timothy Smith, winner of the \$1,000 Four Seasons Hotels Hospitality Scholarship; Marie Viezner, winner of a \$500 scholarship from the National Association of

Meat Purveyors; and Prof. Bob Desautels. Back row: Mark Alder, winner of the \$1,000 Dorothy Shantz Memorial Scholarship presented by the Canadian Restaurant Association Foundation; HAFA director Michael Nightingale; Prof. Michael Haywood; Kevin Bews, winner of a \$500 scholarship from the National Association of Meat Purveyors; Mark Cator, marketing manager of Cardinal Meats Specialists Ltd. in Toronto; Andree Crombie, winner of a \$1,000 American Hotel Foundation Scholarship; Prof. Bruce Ryan, acting dean of FACS; and Prof. John Walsh.

Coming events

WEDNESDAY, Feb. 1

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Feminist and Christian, 10:10 a.m., UC 533; Ecumenical Holy Communion, 12:10 p.m., UC 533; Immanuel Christian Fellowship, 5 to 7 p.m., 287 Water St.; Community Fellowship, 5 to 7 p.m., Chaplain's Lounge, UC Level 3.
Computing Seminar - "Desktop Publishing 1 - IBM PC Solutions," 12:05 p.m., Computing Services 204.
OVC Seminar - "Feedlot Health Management," Ken Bateman, 12:10 p.m., Clinical Studies 1438 (508).
University Achievers Lecture Series, Roberta Bondar, 5 p.m., MacNaughton 105.
Continuing Education - "Essential Mathematics for Math Phobics," 7 p.m., four weeks; "Zen, Some Western Philosophies & Who Am I Anyway?" 7:30 p.m., six weeks, register at Ext. 3956/7.

THURSDAY, Feb. 2

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Relationships: The Central Concern of Jesus, 4 p.m., UC 335; Exploration in Meditative Prayer, 5:10 p.m., UC 533; Social Evening, 6 to 9 p.m., UC 334/335.
Information Technology Seminar - "Overview of Communications Services on Campus," 10 a.m. to noon, Computing Services 204, register at Ext. 6568.
Pathology Seminar - "Multifocal Inflammatory CNS Disease in Dogs: A Clinical, Pathological Study," E. Scott, 11:10 a.m., Pathology 220.
Concert - Faculty Recital - Mel Burke, saxophone; Dianne Nichols, piano; and Howard Spring, guitar, 12:10 and 1:10 p.m., MacKinnon 107, free.
Family Studies Seminar - "Perceptual and Interactional Study of Intergenerational Relations," Joan Norris and Marshall Fine, 2:10 p.m., FACS 233.
Physical Science Lecture - "Fractals," Benoit Mandelbrot, 3 p.m., War Memorial Hall.
Continuing Education - "How to Write a Short Story," eight weeks; "Desktop Publishing," six weeks, 7 p.m., register at Ext. 3956/7.
Concert - Shuffle Demons, 9 p.m., Peter Clark Hall, \$5.50 advance, \$6 at the dnrr.

FRIDAY, Feb. 3

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 8:10 a.m., UC 533.

Convocation - Ph.D., D.V.Sc., MA, M.Sc., M.L.A., DVM, BA and graduate diploma, 10 a.m.; B.A.Sc., B.Comm., B.Sc., B.Sc.(H.K.), B.Sc.(Agr.), B.Sc.(Eng.) and associate diploma in agriculture, 2:30 p.m., War Memorial Hall.
Information Technology Seminar - "PC/SAS," 10 a.m. to noon, Computing Services 204, register at Ext. 6568.
Continuing Education - "Wine Appreciation III," 7 p.m., six weeks, register at Ext. 3956/7.

SATURDAY, Feb. 4

Continuing Education - "Introduction to Lotus 1-2-3," 9:30 a.m. to 4:30 p.m., register at Ext. 3956/7.
Dinner Theatre - Theatre in the Trees, *I Ought to Be in Pictures*, 6:30 p.m., Arboretum Centre, \$29.50.

SUNDAY, Feb. 5

Worship - Morning Worship Service, University Bible Studies, 9 a.m., UC 441; Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry, 8 p.m., UC 533.
The Arboretum - Sunday Afternoon Walk, "Voyage Beneath the Ice," 2 p.m., Nature Centre.
Concert - Guelph Youth Orchestra, 3 p.m., Arboretum Centre, ticket information 823-5298.

MONDAY, Feb. 6

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 5:10 p.m., UC 533.
Information Technology Seminar - "Introduction to NetNorth," 10 a.m. to noon, Computing Services 204, register at Ext. 6568.
Charity Pancake Breakfast - HAFA main council, 11 a.m. to 2 p.m., HAFA Restaurant, \$3.
Health Fair '89 - Booths, Displays, 10 a.m. to 4 p.m., UC courtyard.
Seminar - "Questions from Cameroon - Questions on Development Aid," Sandra Cairns, noon, MacKinnon 132.
Continuing Education - "Chess... Art, Science or Sport?" 7 p.m., eight weeks, register at Ext. 3956/7.
Our Common Future - "Sustainable Development: the Myths of Hunger, the University Challenge," Brian Segal, Joseph Collins, 7:30 p.m., The Arboretum.
Faith and Agriculture Series - "Drought '88 - Our Food System on the Brink," Elbert van

Donkersgoed, 8 p.m., MacKinnon 311.

TUESDAY, Feb. 7

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 12:10 p.m., UC 533; Inquiry into Catholicism, 4 p.m., UC 334; Faithfully Curious, 5 p.m., UC 335.
Health Fair '89 - Booths, Displays, 10 a.m. to 4 p.m., UC courtyard.
CSRC Information Session - "Eating Disorders," noon, UC 318.
Writing Workshop - "How to Write an Essay," noon, UC 335.
Our World - "Hurricane Relief for Nicaragua," 12:10 p.m., UC 441.
Music Lecture and Demonstration - "The Lute," Terry McKenna, 12:10 p.m., MacKinnon 203.
Gerontology Seminar - "A Study of the Effects of an Intervention Program on the Nutritional Status of a Selected Group of Low-Income Elderly," Donna Woolcott, 12:10 p.m., UC 335.
Physics Seminar - "Scaling Networks of Cosmic Strings," Andreas Albrecht, 4 p.m., MacNaughton 113.
Continuing Education - "Exploring Watercolors," eight weeks; "Good Graphics," six weeks, 7 p.m., register at Ext. 3956/7.

WEDNESDAY, Feb. 8

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Feminist and Christian, 10:10 a.m., UC 533; Catholic Mass, 12:10 p.m., UC 103; Ecumenical Holy Communion, 12:10 p.m., UC 533; Community Fellowship, 5 to 7 p.m., Chaplain's Lounge, UC Level 3; Immanuel Christian Fellowship, 5 to 7 p.m., 287 Water St.
Computing Seminar - "Diagnosing PC Hardware Problems," 12:05 p.m., Computing Services 204.
Biochemistry Seminar - "Recent Studies on the Characterization of a Human Gene Required for DNA Replication," Rose Sheinin, 12:10 p.m., MacNaughton 222.
OVC Seminar - "Recent Advances in the Endocrinological and Immunological Aspects of Reproduction in the Mare," Twink Allen, 12:10 p.m., Clinical Studies 1438 (508).
CSRC Workshop - "Communication," 7 to 10 p.m., UC 318, register at Ext. 3245.
Continuing Education - "Shakespeare's World," five weeks; "WordPerfect I," three weeks, 7 p.m., register at Ext. 3956/7.

THURSDAY, Feb. 9

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Relationships: The Central Concern of Jesus, 4 p.m., UC 335; Exploration in Meditative Prayer, 5:10 p.m., UC 533; Social Evening, 6 to 9 p.m., UC 334/335.
Pathology Seminar - "Results of Histological Studies of Normal and Dead Avian Embryos and Membranes," S.M. Mirsalimi, 11:10 a.m., Pathology 220.
Concert - Essex Winds, 12:10 and 1:10 p.m., MacKinnon 107, free.
Continuing Education - "Residential Landscape Design," eight weeks, 7 p.m., register at Ext. 3956/7.

FRIDAY, Feb. 10

Schedule of Dates - Last day for submission of student petitions - second meeting.
Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 8:10 a.m., UC 533.
Systematics Seminar Series - "Inclusive Fitness and Adaptive Significance of Longevity in Humans," Susan Pfeiffer, 3:10 p.m., Animal Science 141.

SATURDAY, Feb. 11

The Arboretum - "Night Stalker's Owl Prowl," 7 p.m., Nature Centre, register at Ext. 3932.
Dinner Theatre - Theatre in the Trees, *I Ought to Be in Pictures*, 6:30 p.m., Arboretum Centre, \$29.50.

SUNDAY, Feb. 12

Worship - Morning Worship Service, University Bible Studies, 9 a.m., UC 441; Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry, 8 p.m., UC 533.
The Arboretum - Sunday Afternoon Walk, "Squirrels," 2 p.m., Nature Centre.

MONDAY, Feb. 13

Schedule of Dates - Mid-Semester Break, no classes scheduled.
Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 5:10 p.m., UC 533.
Continuing Education - "Life as a Landlord," seven weeks, 7 p.m., register at Ext. 3956/7.

TUESDAY, Feb. 14

Schedule of Dates - Mid-Semester Break, no classes scheduled.
Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 12:10 p.m., UC 533; Inquiry into Catholicism, 4 p.m., UC 334; Faithfully Curious, 5 p.m., UC 335.
Information Technology Seminar - "WordPerfect 5.0 Advanced Features," 10 a.m. to noon, Computing Services 204, register at Ext. 6568.
Science Noon - "The Greenhouse Effect," Terry Gillespie, noon, War Memorial Hall.

WEDNESDAY, Feb. 15

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Feminist and Christian, 10:10 a.m., UC 533; Ecumenical Holy Communion, 12:10 p.m., UC 533; Immanuel Christian Fellowship, 5 to 7 p.m., 287 Water St.; Community Fellowship, 5 to 7 p.m., Chaplain's Lounge, UC Level 3.
Computing Seminar - "Statistical Packages," 12:05 p.m., Computing Services 204.
University Achievers - Peter Anderson, 5 p.m., UC 103.
Continuing Education - "An Introduction to Family Law," six weeks, 7:30 p.m., register at Ext. 3956/7.

Letters to the editor

The necessity of balanced research programs

I was aghast when I read David Read's letter in *Ar Guelph* Jan. 18. I find it hard to comprehend the naivete of a science student about to graduate who clings to the belief that only research with demonstrated "immediate financial return" should be funded.

Have faculty members failed him and other students? Or do we attribute the misconception to his closed mind? Or a combination of both?

We talk endlessly about the lack of appropriate funding for universities and the failure of the general public to understand what universities should be about. Read has presented us with a classic example of the problem.

I found it ironic that the letter should appear in the same issue as a report on the presentation of the "Research of Distinction Award" to Prof. Peter Egelstaff for work primarily in neutron scattering, which is certainly basic. And, doubly ironic, that Read should be writing to support Prof. John Simpson, one of the distinguished basic research scientists who have brought international recognition to Guelph.

I happen not to agree with Simpson's view on the milk research issue, but that's beside the point. I hope that before he graduates, someone can open Read's eyes to the necessity of balanced research programs that include both basic and applied projects.

Don Jose,
Guelph.

What frustrated women?

I would like to comment on the article in *Ar Guelph* Jan. 18, "More Women Taking Courses, Seeking Career Alternatives."

First, on the University's tuition waiver program. I am a University employee and I participate in this program. The article says 64 per cent of the employees tend to take courses that are work-related. To take a course, employees must make application and have it approved by their supervisor. There have been occasions where the application was denied because the course was not job-related.

The statistics, therefore, are skewed. Not by choice, but because the courses were felt to be unsuitable and the employee felt unable to seek redress.

My second comment is on Vic Reimer's statement that "there is a large number of frustrated women who are looking for other career opportunities" - his explanation for why women take non-work-related courses. Does his data really allow him to draw conclusions like that? Did he perform interviews or surveys?

I suggest, alternatively, that the results could be interpreted to mean that women are interested in a wider variety of topics than men. Or, as a fellow worker pointed out, that there is no faculty of secretarial science on this campus, and it would be difficult for her to take a work-related course.

Perhaps we could turn to the men and wonder why they limit themselves to work-related courses. Are they narrow-minded, only concerned with their careers? No, without interviews or surveys, I hesitate to suggest reasons.

All in all, Reimer's conclusions are specious, and the article is of little value.

Robin McCutcheon,
Microbiology.

Small savings by OVC surgery team add up to big dollars

by Martha Leibrandt,
OVC Communications Co-ordinator

Five members of the Veterinary Teaching Hospital's surgery staff are the recipients of the hospital management committee's first award of \$125 for their cost-saving suggestion.

Whenever they have a few spare minutes, the intrepid five - Judy Cullen, Stephanie Douthwaite, Shirley Inglis, Sue Kinsella and Helen Scott - cut up discarded hand towels from their surgical drape and gown packs. These are then placed in the autoclave to be sterilized and dried - ready to be used in place of the gauze sponges that were purchased for cleaning wounds.

This has entirely eliminated the cost of gauze swabs used in the small animal prep room, and there's even enough left over to partially supply Junior Surgery 183. This represents a savings of about \$1,725 a year.

This is the idea that won the award, but the five women also have other cost-saving suggestions. They save the plastic covers in which surgical gowns, towels and drapes are

sent to the hospital and use them as protective covers for the foam padding used to keep animals comfortable and warm on prep room tables. This cuts down on the number of foam pads needed.

Instead of destroying barely used surgical gowns, they reuse them in the isolation wards in place of previously used plastic gowns. Scrub brushes used by the surgeons are also carefully conserved, sterilized and used for prepping and ward cleanup.

Even the cases in which new syringes are delivered are put to good use - those not used in the hospital are sent to kindergarten classes, where the children enjoy making things the manufacturers would never have dreamed of. The same is true of the protective tubs covering the caps of new bottles of saline wash.

The women also clip and cut up scrap paper to be used for telephone messages.

According to head nurse Douthwaite: "The important thing is to get people to begin thinking of ways of making small savings and then it all mounts up." Adds Kinsella: "It's common sense, really." O

Personnel report

Appointments

Christi Bilodeau has changed employment from MTS II to head nurse, large animal surgery (MTS V), in the Veterinary Teaching Hospital.

Job opportunities

As of *At Guelph* deadline Jan. 27, 1989, the following opportunities were available:

Research Technician, Animal and Poultry Science: grant position. Salary range: \$374 to \$421 per week.

Clerk I, Graduate Studies: temporary full-time until Dec. 8/89. Hiring range: \$291.86 to \$317.13 per week.

The following positions were available to on-campus employees only:

Head Cashier, Food Services: Salary range: \$320.11 minimum; \$369.95 job rate (level 5); \$460.78 maximum.

Animal Health Technician, Veterinary Teaching Hospital: Salary range: \$372.63 minimum; \$430.51 job rate (level 5); \$534.57 maximum.

Post-Mortem Room Attendant, Pathology Department: Salary range: \$320.11 minimum; \$369.95 job rate (level 5); \$460.78 maximum.

Agricultural Assistant, Veterinary Teaching Hospital: Salary range: \$441.39 start rate; \$463.42 six-month rate; \$485.37 one-year job rate.

Research Technician, Crop Science: Salary range: \$437.28 minimum; \$505.69 job rate (level 5); \$626.99 maximum.

Laboratory Technician, Animal and Poultry Science: Salary range: \$437.28 minimum; \$505.69 job rate (level 5); \$626.99 maximum.

Custodian 3, Housekeeping: two positions. Job rate: \$11.38 per hour; probation rate: \$20 per hour lower than job rate.

It is the University's policy to give prior consideration to on-campus applicants. To determine the availability of University employment opportunities, contact Employment Services and Training, Level 5, University Centre, or telephone 836-4900. ○

English as a second language

English as a second language classes begin Feb. 6 and run until June 28. All interested employees are invited to attend one of three sessions.

Session one is Monday to Friday from noon to 1 p.m. Monday, Tuesday, Wednesday and Friday classes are in Room 227, MacKinnon building; Thursday classes are in Room 228. Students will attend session one four out of five days a week, to be arranged with the teacher.

Session two is Monday, Tuesday and Wednesday from 4:30 to 6 p.m. Monday and Tuesday classes are in Room 237, MacKinnon building; Wednesday classes are in Room 232.

Session three is Monday and Tuesday from 7 to 9 p.m. Monday classes are in Room 232, MacKinnon building; Tuesday classes are in Room 307.

Staff development offered

Employment Services and Training in the Personnel Department is again offering a variety of staff development activities during the winter term, ranging from a session on resume writing and interview preparation to workshops on the care and use of animals in research and teaching.

Other programs include "Financial Planning for Retirement," "Career Planning/Goal Setting for Women," "Building Effective Work Teams," "Problem Solving, Decision Making and Planning" and "Customer/Client Relations at the

University of Guelph."

A number of sessions on cardio-pulmonary resuscitation are being offered in March, as is a media training workshop aimed at helping faculty and staff learn how to deal more comfortably and effectively with the media.

The cost of all workshops is supported by Personnel, but enrolments are limited. Registrations will be accepted on a first-come, first-served basis by contacting Employment Services and Training at Ext. 3059/6598 on or after Feb. 2. ○

Personals

For Sale: Child's Judo suit, Ext. 3044. Car roof rack; ski roof rack; archery equipment; women's downhill ski boots, size 8; men's downhill ski boots, size 9 1/2; men's skates, size 9 1/2; tires, Ext. 3387 or 821-1493 after 7 p.m. Three-bedroom bungalow and self-contained one-bedroom apartment on half-acre lot in Eden Mills, Ext. 2053 or 856-4861. Lanpar XT-10MHz, 640K RAM, 20-meg hard disk, monitor, serial port, parallel port, DOS 3.2 and manuals plus software, Judy, Ext. 6113. Used sailboard Masterclass 220 1, stable and very fast, in excellent shape; mast, Neil Pryde sails and bic boom also available, 836-3554 after 5 p.m. or leave message at Ext. 3597. English riding hat, size 7 1/4, Ext. 2965 or 821-5502 after 5 p.m. 1985 Pontiac 6000, low mileage, air conditioning, AM/FM stereo cassette, 823-8150 after 6 p.m.

Wanted: Full-size violin, to rent, borrow or buy, Ruth, Ext. 6008 or 821-5261 evenings. Record player, 856-9687. Four-drawer filing cabinet: Bauer 100 or 1000 Supreme ice skates, size 5 or 5 1/2 boys, Ext. 3044. House or apartment (at least two bedrooms) for non-smoking professor and family from April/May to July/August 1989, Ext. 3279 or 836-2654.

Available: Dwarf rabbit, 1 1/2 years old, floppy ears, with cage, to give away, Liam, Ext. 8311. Word processing with laser printer, Pat, 821-5502 after 5 p.m.

Lost: Woman's new Seiko quartz gold watch, late November/early December, reward, Ina, Ext. 6235 or 658-4007.

"Personals" is a free service offered by *At Guelph* for staff, faculty and students at the University. All items must be typed, double spaced, and submitted to *At Guelph* one week before publication. ○



Students inquire about jobs at the Summer Job Fair held in the University Centre Jan. 26. Forty-three employers had exhibits at the fair, which is sponsored by Career Services in the Counselling and Student Resource Centre. Placement assistant Sue

Novosad says the fair was a success and the job market looks good. Because there are so many jobs available, students are able to be more selective about the jobs they take, she says.

Photo by David Thomas, PRI

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Cover:

Cathy Kolton, assistant to the Registrar, is all smiles as Registrar Arnold Holmes helps adjust her hood. Kolton received a

BA from the College of Social Science at winter convocation last Friday. (See story, page 3.)

Photo by Herb Rauscher, Photographic Services

What's to be done with Gordon Street?



Fred Vaughan. Photo by David Thomas, PRI

The issue of what to do with the Gordon Street traffic corridor that cuts through the heart of the University campus has resurfaced again. This time, however, members of the University community have an opportunity to provide comment and suggestions.

Prof. Fred Vaughan, Department of Political Studies, is to chair the Gordon Street Corridor Study Committee, which was established Jan. 17 by President Brian Segal. Vaughan is seeking input from members of the University community, including people who live in the University area.

The City of Guelph must rebuild Gordon Street because it is deteriorating, particularly in the sections between the University and the Speed River. The city has conducted a study of traffic patterns to see if Gordon Street should remain a two-lane road, be widened to four lanes or whether traffic should be diverted.

Phase 1 of the city's study identified a number of route alternatives and suggested current and projected traffic volumes and turning movements that each alternative could handle. There were deficiencies in the initial studies, and after several public meet-

ings, the city undertook to gather additional data.

Any thought of widening Gordon Street raises the fundamental question of whether it should be widened through the campus between College Avenue and Stone Road, or even whether through traffic should continue in this area, says Vaughan.

Segal has asked the task force to:

- examine route alternatives proposed by the city for the Gordon Street corridor and to determine their potential impact on the campus and immediate area;
- seek the views of the University community about the widening or diversion of Gordon Street;
- develop a preferred University position; and
- submit a report with recommendations to him as soon as possible.

Also named to the task force are Prof. Ross Hallett, Physics; Dr. Brent Matthews, Veterinary Teaching Hospital; Al Brown, director of Physical Resources; Leonard Golfman, a graduate student in the Department of Animal and Poultry Science; Doug Dodd, Athletics; and Craig Sanderson, president of the Central Student Association.

Grant Bacchus, a consulting traffic engineer for the University, will assist the task force. He will attend a city presentation to task force members and senior members of the administration, to be held on campus Feb. 13.

Vaughan invites people to respond in writing to the University secretary, Level 4, University Centre, to the attention of Mollie McDuffe, Ext. 6760. Vaughan says he hopes to have a report for Segal within six weeks. ○



GORDON STREET BLUES

The City of Guelph has studied traffic patterns on Gordon Street. Above, rush hour at the corner of Gordon Street and College Avenue last Wednesday.

Photo by David Thomas, PRI

Recycle your fine paper

U of G is expanding its recycling program to include fine papers. The drive is targeted to start by the end of this month.

Containers have been ordered and will be delivered within the next few weeks, says Roger Jenkins, assistant director of auxiliary operations, Physical Resources. Physical Resources is working on the logistics and promotion of the program, which is being developed in co-operation with the City of Guelph and the Ontario Public Interest Research Group.

Every department or area will be provided with a blue recycling container that will be labelled "For fine paper only." The containers will be emptied by Housekeeping

staff, and the paper will be put into reusable bags, which will be collected by the city's recycling contractor.

"It's extremely important for the program that only acceptable paper is deposited in the containers," says Jenkins. "This will require the co-operation of the entire University community." Acceptable types of paper include computer printouts, photocopier paper, letterheads, bond stock, stationery and typing paper, tablet sheets (blank or lined), as well as white envelopes without windows.

U of G has been dumping about 3,700 tonnes of garbage per year. Jenkins estimates that recycling could reduce this output by about 30 per cent. ○

Changes to Science Noon series

Science Noon, the 25th anniversary noon-hour lecture series intended for students, has changed venue, menu and format.

The series will be held in Peter Clark Hall of the University Centre instead of War Memorial Hall. Thanks to the co-operation of Food Services, the format will now be a luncheon/lecture. The



main part of Peter Clark Hall will be set up with luncheon tables. People attending can purchase a hot lunch, bring their own sandwiches, or just sit and listen, says retired professor Earl MacNaughton, chair of the 25th anniversary committee.

The illustrated lectures begin at 12:10 p.m. and will be over before 1 p.m.

The next lecture is Feb. 21, when Prof. Keith Ronald, director of The Arboretum, will focus on the conflict and competition between marine mammals and humans. On Feb. 28, Clay Switzer, Ontario deputy minister of

agriculture and food, will discuss how science has changed agriculture.

Subsequent lectures are March 7 with Prof. Ron Sudben, Microbiology, on "The Science of Reading a Wine Label"; March 14 with Dr. Harold Peel, chief scientific adviser of the RCMP's Central Forensic Laboratory Ser-

vices, on "Forensic Science — Closing in on Crime"; and March 21 with Dr. Donald Chant, chair and president of the Ontario Waste Management Corp., on "From Ecology to Toxic Wastes: a Personal Journey."

Prof. Terry Gillespie, Land Resource Science, who was scheduled to speak Feb. 14, will now be the final speaker in the series. His topic March 28 is "The Greenhouse Effect! Is it Really Happening?"

Although the Science Noon series is intended for students, MacNaughton says everyone is welcome to attend. ○

Forum to focus on Canada, the Arctic and world peace

The Guelph-Wellington chapter of Canadian Physicians for the Prevention of Nuclear War is sponsoring a public forum on campus Feb. 11, focusing on Canada, the Arctic and world peace and security.

The forum will examine the growing military rivalry and the environmental threats to the polar region. Speakers are Prof. Vernon Thomas, Zoology; Rear Admiral Eugene Carroll, Centre for Defence Information, Washington, D.C.; Dr. Fred Roots, science adviser with the federal Department of the Environment; and Robert Fowler, assistant

deputy minister (policy), Department of National Defence.

The forum will run from 9 a.m. to 4:30 p.m. in Room 105, MacNaughton building. Registration is \$30, \$10 for students and seniors.

The night before the forum, there will be a dinner at 6:30 p.m. on Level 4 of the University Centre. Guest speaker Carroll will discuss "New Opportunities for International Peace and Security." Cost is \$40, \$20 of which is tax-deductible. For more information, call 822-4423. ○

Briefly

Our common future

"Our Common Future," a free discussion series on sustainable development, continues Feb. 15 at 7:30 p.m. at The Arboretum on the theme "Three Views: Legal, Native and Women." Guest speakers are environmental lawyer Ralph Osterwold, writer Jennifer Sells and native studies professor Thom Alcege.

Job satisfaction studied

Researchers in the industrial-organizational area within the Department of Psychology are conducting a study to determine the nature of job satisfaction and how to measure it. Led by Prof. Steven Cronshaw, a research team has begun the first major stage of the study, which involves sending questionnaires to 1,800 full-time employees at the University. Because the complexity of this work requires a large number of respondents, the researchers are hoping that as many employees as possible will complete the anonymous questionnaires. If any employees have any questions or concerns, they are asked to call project leaders Paul Van Katwyk and Chuck Evans at Ext. 8754.

A honey of a sale

The Apiculture Club is holding a honey and candle sale Feb. 10 from 9 a.m. to 4 p.m. in the University Centre courtyard.

Redress your stress

The Guelph Community Health Centre is offering a two-part workshop series on stress. Session one Feb. 8 will focus on "Living in Harmony: Family, Relationships and You." Workshop leaders are Prof. Claude Guldner, Family Studies, elementary school principal Gerry Davis and family therapist Marilyn Penfold. On Feb. 15, the topic is "How to Manage Stress" with retired Human Biology professor Evelyn Bird and massage therapist

Ursula MacNaughton. The sessions run from 7:15 to 9:45 p.m. at the health centre, 89 Wyndham St. N. There is no fee for participation, but donations to cover costs will be appreciated. For more information, call 823-2587 evenings.

Noon-hour concert

The Department of Music's Thursday noon-hour concert Feb. 9 features the Essex Winds Quintet. Formed in 1981, the quintet consist of the principal wind players from the Windsor Symphony on flute, oboe, clarinet, bassoon and French horn. On Feb. 16, the guest performers are mezzo-soprano Carol Ann Felstein and pianist Leslie De'ath. The concerts are at 12:10 and 1:10 p.m. in Room 107, MacKinnon building. Admission is free.

Botany seminar

The Department of Botany presents a seminar with Ray Evert, a botanist from the University of Wisconsin, Feb. 15 at 3 p.m. in Room 259, Botany/Genetics/Zoology building. Evert's topic is "The Vascular Cambium and Secondary Phloem Development in Deciduous Hardwoods."

CSRC offers self-help workshops

The Counselling and Student Resource Centre is offering a series of self-help workshops and information sessions. They will be held in Room 318 of the University Centre in the CSRC area. A communication workshop focusing on the arts of listening and assertiveness runs Feb. 8 from 7 to 10 p.m. Register at Ext. 3245. On Feb. 16, you can find out more about stress and what to do about it at an information session from noon to 1:30 p.m.

Shaw on stage

The Department of Drama presents Bernard Shaw's *Arms and the Man* Feb. 20 to 25 at the Inner Stage in the MacKinnon building. The student production is directed by artist-in-residence Guy Bannerman and designed by Allan Watts. Tickets are \$4.50 Monday through Wednesday and \$5.50 Thursday through Saturday and are available at the University Centre box office and the Bookshelf Cafe.

Collectables fair

The Guelph Collectables Fair Feb. 19 will feature more than 100 tables of sports memorabilia, records, movie posters and comics. Special guests will be Jim McKenny, former Toronto Maple Leaf and now sportscaster for CITY-TV, and John MacLeod of the Registrar's Office, creator of the comic book *Dishman*. The fair runs from 11 a.m. to 5 p.m. in Peter Clark Hall. At 1 p.m., Scotty Morrison, president of the Hockey Hall of Fame, will officially open a new display of reproductions from the hall of fame in the Boo Sports Bar on Level 3 of the University Centre. Admission to the fair is \$3 general and \$2 for students.

Theatre in the Trees

The Arboretum's dinner theatre, Theatre in the Trees, is offering the Neil Simon comedy *I Ought to Be in Pictures*, directed by John Snowdon. Scheduled performances this month are Feb. 11, 18 and 25. Dinner begins at 6:30 p.m.; cost is \$29.50. Tickets are available at the University Centre box office, Ext. 3940.

Lawyer to speak

The 25th anniversary achievers series continues Feb. 15 at 5 p.m. in Room 103, University Centre, with Guelph lawyer Peter Anderson as guest speaker.

Fine art grads to talk

Two of the artists represented in the Macdonald Stewart Art Centre's current exhibition of work by U of G fine art

graduates will speak on campus this month in the art centre's lecture room. Alan Barkley, Arts '75, president of the Emily Carr College of Art and Design in Vancouver, will give an illustrated talk about his sculpture Feb. 15 at 2 p.m. Nora Hutchinson, Arts '76, who has performed and screened her videotapes across Canada and internationally, will screen and talk about her work Feb. 22 at 2 p.m.

International exchange programs

Canada World Youth has positions available for co-ordinators and group leaders in its international exchange programs with developing countries in Africa, Asia and Latin America. The aim of CWY is to promote an understanding of development and intercultural communication in a community-based program. During the 10- to 12-month contract period, all costs for food, lodging and transportation will be paid by CWY. Application deadline is March 3. For application forms or more information, contact the Development Education Program, 15 University Ave. E., Ext. 3778, or Canada World Youth, 386 Bloor St. W., Toronto M5S 1X4, 416-922-0776.

Final Canada Research Fellowships

The Social Sciences and Humanities Research Council is offering its Canada Research Fellowships for the last time this year. The fellowship program was initiated in 1986 to promote excellence in research, to improve career opportunities for promising researchers in the social sciences and humanities, and to ensure an adequate supply of highly qualified personnel for faculty and research appointments in the next decade. Up to 40 fellowships, valued at \$35,000 plus a \$4,000 research allowance per year, will be available in 1989. The fellowships are tenable for at least three years, and costs are shared equally by SSHRC and the nominating universities. For more information, contact Heather Steel, Director, Fellowships Division, SSHRC, P.O. Box 1610, 255 Albert St., Ottawa K1P 6G4, 613-992-4316.

Congress meets in Third World

The Fourth Biennial Congress on the Fate of the Earth will take place in Managua, Nicaragua, June 5 to 9. This is the first Fate of the Earth conference to be held in the Third World. Registration is \$200 U.S. For more information, call Franlie Allen, Ext. 6915.

What's on at The Arboretum

The Arboretum's Sunday afternoon walk series continues Feb. 12 with "Squirrels." It leaves from The Arboretum Nature Centre at 2 p.m. On Feb. 11, The Arboretum will lead a night stalker's owl prowls for adults and children over 9. Register at Ext. 3932. The Arboretum's annual February frolic is Feb. 19, featuring guided walks at 1 and 3:30 p.m. and a concert by the Pentaphonia Brass Quintet at 2:30 p.m.

Violinist to perform

One of Canada's leading violinists, Moshe Hammer, will pay tribute to his former teacher Jascha Heifetz in a recital Feb. 12 at 3 p.m. at Chalmers United Church. Tickets are \$10 general, \$8 for seniors and students, and \$20 for families. They are available at the Carden Street Music Shop or at the door.

Engineering scholarship offered

The Canadian Council of Professional Engineers and North American Life Assurance Co. offer three scholarships of \$7,500 to engineers returning to university. This year, the CCPE is co-sponsoring two additional scholarships with the Optimum Financial Services Ltd. and Encon Insurance Managers Inc. One scholarship, valued at \$5,000, is for engineers returning to univer-

sity for study in a field other than engineering. The second is an endowment of \$5,000 for an engineer wishing to pursue studies or research in the area of engineering failure investigation. Applicants must have been engaged in engineering practice for more than two years since graduation. Deadline for applications is May 1. For more information or an application form, write to: National Scholarship Program Canadian Council of Professional Engineers, 401-116 Albert St., Ottawa K1P 5G3.

Computing seminars

Today's topic in Computing Services' lunch-time discussion series is "Diagnosing PC Hardware Problems." It begins at 12:05 p.m. in Room 204, Computing Services. Next Wednesday, discussion will focus on "Statistical Packages."

Concert to honor Segal

The Department of Music will hold a concert to honor President Brian Segal and the University's 25th anniversary Feb. 25 at 8 p.m. at the Macdonald Stewart Art Centre. The concert will feature mezzo-soprano Patricia Harton-McCord, soprano Elizabeth Neufeld, violist Dan Bush, pianist Leslie Kinton and organist Patricia Phillips. A new electronic composition by the University's composer-in-residence, Charles Wilson, will also be presented. Tickets are \$10 general, \$8 for students and seniors, and are available from Patricia Law, Department of Music, Ext. 3988.

OVC seminars

The OVC seminar series continues today with Dr. W.R. "Twink" Allen, director of the Thoroughbred Breeders Association's equine fertility unit, Newmarket and Cambridge, discussing "Recent Advances in the Endocrinological and Immunological Aspects of Reproduction in the Mare." On Feb. 22, Prof. David Walther-Toews, Population Medicine, will read selections of his poetry. The sessions are at 12:10 p.m. in Room 1438 (formerly 508), Clinical Studies building.

UN offers student programs

This summer, the United Nations will be offering a graduate student intern program at UN headquarters in New York and a graduate study program at the UN office in Geneva. Aimed at giving outstanding graduate students an opportunity to broaden their understanding of the principles, purposes and activities of the UN, the programs will include briefings by senior UN officials, panel discussions and attendance at UN meetings. All travel and living costs are the responsibility of the students or their sponsoring institutions. Deadline for applications is Feb. 28 for the New York program and April 15 for the Geneva program. For more information, call Franlie Allen, Ext. 6915.

Dilli-Deli order service

Sandwiches can now be ordered in advance from the Dilli-Deli in Centre Six. Place orders between 7:30 and 10:30 a.m. by calling Ext. 6698 or filling out an order card at Hava Java and Dilli-Deli. Orders will be ready for pickup at the specified time, between 10:30 a.m. and 2 p.m.

Send in the clowns

Valentine's Day balloons are on sale today in the MacNaughton building foyer, and Feb. 9 and 10 in the University Centre. Balloons will be delivered by clowns anywhere on campus Feb. 9 and 10. Cost is \$2 per balloon, \$10 per half dozen and \$18 per dozen.

At Guelph

is published by the University of Guelph for the University community and its friends every Wednesday except during December, July and August, when a reduced schedule applies.

At Guelph is guided by an editorial policy approved by the president of the University. A copy is available on request.

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Stories may be reprinted with acknowledgment of source.

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HAFAs students receive French cuisine experience

by Mary Dickieson

The restaurant is definitely French. The menu tempts you with authentic dishes from the south of France. Even the kitchen chatter adds to the aura of authentic French cuisine.

But the restaurant is actually a converted classroom on campus, and the waiters and cooks are students in the School of Hotel and Food Administration.

These students are enrolled in a new HAFAs course, studying the history and culture of French cuisine, speaking only French and studying with a French chef.

"What a great experience for students who want to work in Europe," says Prof. Jo Marie Powers. The 20 students in the course are learning classical restaurant cuisine and French kitchen language at the same time. Powers and chef Jacques Marie believe HAFAs is the first school in North America to offer students this kind of experience.

Powers says the course is a building block for studies in the art of cooking, where learning the significance of historic and cultural influences on food preparation are more important than learning to prepare a soufflé.

"You can't become an expert on French cooking by visiting French restaurants or by learning to prepare a few French foods," she says. "HAFAs stresses the need for students to develop a more sophisticated appreciation of cultural cuisines."

Marie is a master chef and a master in food and wine technology. Born in Normandy, France, he has a family tradition in the hotel business. Formerly executive chef for the Sutton Place Hotel and assistant executive chef at the Inn on the Park in Toronto, he teaches cooking, food technology and wine appreciation to chefs and other students at George Brown College.

Marie says the Guelph course offers students an experience unlike other courses in French cooking. The fact that even English-speaking students must converse in French makes it more difficult, but also more rewarding, he says. His students are learning how the history of France influenced the country's great chefs. They must research a project and prepare it for presentation in a restaurant setting.

"Restaurant Français" invites the public to share this unique experience, says Marie. His students will offer six French theme meals on Friday evenings Feb. 10 to March 17. Each meal will feature more than six courses and will be served banquet style at 6:30 p.m. in the HAFAs restaurant at a cost of \$20 to \$25.

Reservations are essential for these evenings, which will provide a taste of the dishes served in Provence, the province of Champagne and the Savoie. Other meals will offer nouvelle cuisine, foods in the style of the famous French chef Paul Bocuse and foods demonstrating the French influence on Louisiana Cajun cooking.

The public presentation of these meals is the fun part of the course, where guests "can expect anything," says Marie. "The students have great spirit and are very enthusiastic about their projects." Many have enlisted the help of friends across campus to decorate the restaurant and provide the appropriate atmosphere.

The restaurant schedule is as follows: "Foods from Provence" Feb. 10, "Nouvelle Cuisine" Feb. 17, "Dine in the Style of Paul Bocuse" Feb. 24, "Foods from the Province of Champagne" March 3, "Foods from the Savoie" March 10 and "Louisiana Cajun Cooking" March 17. For reservations, call Ext. 8116. ○



Chef Jacques Marie shows HAFAs students how to cut rabbit for an entree favored in

Normandy, France, that features rabbit with cider and cream sauce.

Photo by David Thomas, PRI

Winter Convocation 1989

More than 540 U of G students graduated at winter convocation ceremonies in War Memorial Hall Feb. 3.

Benoit Mandelbrot, regarded as one of the world's leading mathematicians, received an honorary doctor of science and addressed graduates at morning convocation.

"Mathematics has its austere beauty," he told recipients of graduate diplomas and the degrees doctor of philosophy, master of arts, master of agriculture, master of science and bachelor of arts. But its real beauty is its usefulness as a tool in other fields, he said.



Benoit Mandelbrot.

Photo by Herb Rauscher, Photographic Services

Mandelbrot, the inventor of fractal geometry, spoke of the application of his mathematics in such fields as physics, economics and biology.

Alan Marchment, a senior executive of the Guaranty Trust Co. and former chair of Board of Governors, was made an honorary fellow of the University at afternoon convocation. He told graduates that, with their university training, they have a world of opportunities ahead of them. He cautioned, however, that events over which they have no control could affect their best-laid plans.

"My advice, therefore, is to always be flexible in your outlook. Your career should be exciting and rewarding if you remember there is always more than one way to advance."

At afternoon convocation, degrees and diplomas were presented to recipients of the bachelor of applied science, bachelor of commerce, bachelor of science in human kinetics, bachelor of science, bachelor of science in agriculture, bachelor of science in engineering and the associate diploma in agriculture. ○



Left to right: Bill Winegard, minister of state for science and technology, honorary

fellow Alan Marchment and President and Vice-Chancellor Brian Segal.

Photo by Herb Rauscher, Photographic Services

Visiting man dies

A 19-year-old Oakville man who was on campus with friends visiting a U of G student died Jan. 29.

Richard John Sloan was found by some students at 1:45 a.m. on the floor outside a washroom near Mountain Pizza in South Residences.

Students administered CPR until campus police and the fire division arrived. The fire division administered CPR until an am-

bulance arrived. Sloan was pronounced dead on arrival at Guelph General Hospital.

An autopsy determined Sloan died of asphyxiation from choking.

Brian Sullivan, associate vice-president, student affairs, says the regional coroner is awaiting final results of laboratory tests before determining whether an inquest will be held. ○

Segal named co-chair of National Universities Week

President Brian Segal is co-chairing National Universities Week (NUW) 1989. He is sharing responsibilities with Claude Corbo, rector of the University of Quebec at Montreal.

Established in 1983, NUW is a biannual campaign co-ordinated by the Association of Universities and Colleges of Canada to raise the public's awareness of the issues surrounding postsecondary education. As an AUCC member-institution, U of G mounts an extensive program of activities during NUW.

Planning is well under way for this year's campaign, which will run from Oct. 14 to 22. NUW '89 will be directed to junior high school, secondary school and CEGEP students and their parents, says Segal. It will address the legitimate aspirations of Canadian

families who want a better life for their children and point out the extent to which these are dependent on the level of their education and training.

The theme will also take the message of opportunity-through-education to young students who may not be thinking about further education.

NUW '89 will also address the obstacles that lie in the path of the aspirations of high school students and their parents today and in the future.

"We aren't advocating a negative campaign," says Segal, "but we do believe that Canadians must be alert to the real possibility that Canadian higher education in the future may not be as accessible, or as high quality, as we all would wish." ○

Coming events

WEDNESDAY, Feb. 8

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Feminist and Christian, 10:10 a.m., UC 533; Catholic Mass, 12:10 p.m., UC 103; Ecumenical Holy Communion, 12:10 p.m., UC 533; Community Fellowship, 5 to 7 p.m., Chaplain's Lounge, UC Level 3; Immanuel Christian Fellowship, 5 to 7 p.m., 287 Water St.

Computing Seminar - "Diagnosing PC Hardware Problems," 12:05 p.m., Computing Services 204.

Biochemistry Seminar - "Recent Studies on the Characterization of a Human Gene Required for DNA Replication," Rose Sheinin, 12:10 p.m., MacNaughton 222.

OVC Seminar - "Recent Advances in the Endocrinological and Immunological Aspects of Reproduction in the Mare," Twink Allen, 12:10 p.m., Clinical Studies 1438 (508).

CSRC Workshop - "Communication," 7 to 10 p.m., UC 318, register at Ext. 3245.

Continuing Education - "Shakespeare's World," five weeks; "WordPerfect 1," three weeks, 7 p.m., register at Ext. 3956/7.

Poetry Prattle Pub - Faculty and Student Poetry Readings, 8 p.m., UC 103, \$2.

THURSDAY, Feb. 9

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Relationships: The Central Concern of Jesus, 4 p.m., UC 335; Exploration in Meditative Prayer, 5:10 p.m., UC 533; Social Evening, 6 to 9 p.m., UC 334/335.

Pathology Seminar - "Results of Histological Studies of Normal and Dead Avian Embryos and Membranes," S.M. Mirsalimi, 11:10 a.m., Pathology 220.

Concert - Essex Winds, 12:10 and 1:10 p.m., MacKinnon 107, free.

Continuing Education - "Residential Landscape Design," eight weeks, 7 p.m., register at Ext. 3956/7.

FRIDAY, Feb. 10

Schedule of Dates - Last day for submission of student petitions — second meeting.

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 8:10 a.m., UC 533.

Systematics Seminar Series - "Inclusive Fitness and Adaptive Significance of Longevity in Humans," Susan Pfeiffer, 3:10 p.m., Animal Science 141.

Apiculture Club - Honey and Candle Sale, 9 a.m. to 4 p.m., UC courtyard.

SATURDAY, Feb. 11

Dinner Theatre - Theatre in the Trees, *I Ought to Be in Pictures*, 6:30 p.m., Arboretum Centre, \$29.50.

The Arboretum - "Night Stalker's Owl Prowl," 7 p.m., Nature Centre, register at Ext. 3932.

SUNDAY, Feb. 12

Worship - Morning Worship Service, University Bible Studies, 9 a.m., UC 441; Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry, 8 p.m., UC 533.

The Arboretum - Sunday Afternoon Walk, "Squirrels," 2 p.m., Nature Centre.

MONDAY, Feb. 13

Schedule of Dates - Mid-Semester Break, no classes scheduled.

Worship - Devotions, 8:45 a.m. Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 5:10 p.m., UC 533.

Human Biology Seminar - "Dental Evidence for Disturbed Developmental Homeostasis in a North American Genetic Isolate," 12:10 p.m., Human Biology 108.

Continuing Education - "Life as a Landlord," seven weeks, 7 p.m., register at Ext. 3956/7.

TUESDAY, Feb. 14

Schedule of Dates - Mid-Semester Break, no classes scheduled.

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 12:10 p.m., UC 533; Inquiry into Catholicism, 4 p.m., UC 334; Faithfully Curious, 5 p.m., UC 335.

Information Technology Seminar - "WordPerfect 5.0 Advanced Features," 10 a.m. to noon, Computing Services 204, register at Ext. 6568.

Seminar - "Eastern Europe -- U.S.S.R. Linkages Program with U of G," 4 p.m., MacKinnon 316, RSVP at Ext. 3958.

WEDNESDAY, Feb. 15

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Feminist and Christian, 10:10 a.m., UC 533; Ecumenical Holy Communion, 12:10 p.m., UC 533; Immanuel Christian Fellowship, 5 to 7 p.m., 287 Water St.; Community Fellowship, 5 to 7 p.m., Chaplain's Lounge, UC Level 3.

Computing Seminar - "Statistical Packages," 12:05 p.m., Computing Services 204.

Art Lecture - Alan Barkley, 2 p.m., Macdonald Stewart Art Centre; 7:30 p.m., Zavitz 212.

Botany Seminar - "The Vascular Cambium and Secondary Phloem Development in Deciduous Hardwoods," Ray Evert, 3 p.m., Botany/Genetics/Zoology 259.

University Achievers - Lawyer Peter Anderson, 5 p.m., UC 103.

Continuing Education - "An Introduction to Family Law," six weeks, 7:30 p.m., register at Ext. 3956/7.

Our Common Future - "Sustainable Development: What Is It? Three Views: Legal, Native and Women," Ralph Osterwald, Jennifer Sells, Thom Alcoze, 7:30 p.m., The Arboretum.

THURSDAY, Feb. 16

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Relationships: The Central Concern of Jesus, 4 p.m., UC 335; Exploration in Meditative Prayer, 5:10 p.m., UC 533; Social Evening, 6 to 9 p.m., UC 334/335.

Information Technology Seminar - "Overview of Database Access," 10 a.m. to noon, Computing Services 204, register at Ext. 6568.

Information Session - "Stress," noon, UC 318.

Concert - Carol Ann Felstein, mezzo-soprano, and Leslie De'ath, piano, 12:10 and 1:10 p.m., MacKinnon 107, free.

Men's Volleyball - Vs Western, 7:47 p.m., Athletics Centre, \$2.



Cover:

The Canadian Imperial Bank of Commerce celebrated a long tradition of close ties with U of G last week by presenting a very big cheque to *The Campaign*. CIBC president Al Flood, right, makes the presentation to President Brian Segal. (See story, page 1.)

Photo by David Thomas, PRI

THE
CAMPAIGN

Heavy agenda awaits Senate

U of G's academic governing body votes Feb. 21 on recommendations that, if approved, will initiate action on the task forces on engineering and rural resources and the University's planning process, give the institution a statement of commitment to graduate education, change the 13-week semester, establish a Paris semester and a centre for the study of animal welfare, and continue the Gerontology Research Centre and the French-language services program.

The Committee on University Planning (CUP) will report on the Task Force on Engineering and seek Senate support for the transfer of OAC's School of Engineering for administrative purposes to the College of Physical Science May 1. The move is seen by CUP and the school as an opportunity to reshape the school's image to that of an applied science program within a college of science.

CUP will also give a report on the Task Force on Rural Resources and recommend that the academic vice-president begin discussions with deans and chairs of interested departments, leading to the appointment of a co-ordinator of rural resources/environmental stewardship/ecology studies and a co-ordinating committee.

Last month, Senate approved a motion delaying the University's 1989/90 strategic planning cycle so that an improved and more comprehensive process could be developed. CUP will ask Senate to endorse a new process that will include all sectors of the University, involve both Senate and the Board of Governors and have an expanded time frame.

The Board of Graduate Studies (BGS) will give a report on strategic planning for graduate studies and will ask Senate to endorse a statement of commitment to graduate education. It will also seek approval for a motion that the academic vice-president formulate a long-term plan to alleviate the conditions hindering graduate program development and capitalize on opportunities to meet the financial and other resource needs of graduate programs.

BGS is also calling for a cross-campus review of graduate student recruitment programs by the Office of Graduate Studies, which would assemble and disseminate information on good student recruitment practices in use at U of G and elsewhere and provide consultation to departments that wish to strengthen their recruitment activities.

Seven recommendations await Senate action in a Board of Undergraduate Studies (BUGS) report on the semester schedule of dates. BUGS will seek a University shift from a nominal 13-week semester to a fully utilized 60-day teaching schedule where each course would have a full 12 weeks of class meetings.

BUGS will recommend a three-day academic orientation and a six-day add period that would begin on the Wednesday before classes begin, a one-day increase to the final examination period in the fall and winter semesters, a one-week interval between the fall and winter semesters, and a five-day winter semester break after the sixth week of classes.

BUGS will present a proposal for a four-semester program abroad, this one in Paris. U of G already offers study-abroad programs in the School of Landscape Architecture, the London semester and the Nice program.

The Paris semester would be offered to 20 students for the first time in the winter of 1990. It would be administered by a committee established by the associate vice-president, academic, and would be reviewed at the end of three years.

BUGS will present a subcommittee report on French-language courses and services offered at U of G since the program was initiated and a co-ordinator appointed in 1985. U of G is the only anglophone Ontario university — and one of only three in Canada — to adopt a statement of intent and policy on services in French to anglophone and francophone students. BUGS is to recommend that the program continue for another three years.

The Gerontology Research Centre has undergone a review by an external review committee, and the Research Board will ask Senate to approve its continuation with funding for another five years, when another review will be held. The Research Board will also seek Senate support for the establishment of a centre for the study of animal welfare.

Senate meets at 8 p.m. in Room 113 of the MacNaughton building. O



A scene from the Department of Drama's first winter production, *Arms and the Man*, a comedy by Bernard Shaw. Directed by Drama's artist-in-residence, Guy Bannerman, the play will be held at the Inner Stage in the MacKinnon

building Feb. 20 to 25 beginning at 8 p.m. Tickets are \$4.50 Monday through Wednesday and \$5.50 Thursday through Saturday, and are available at the University Centre box office.

Photo by Herb Rauscher, Photographic Services

Committee seeks input on role of OEP

A committee charged with reviewing and updating the mandate of the Office for Educational Practice is seeking input from members of the University community on the future role of OEP at U of G.

Chaired by Prof. Terry Gillespie, Land Resource Science, the OEP Mandate Review Committee established by the Senate Committee on Educational Development has been charged with reviewing the mandate of OEP and its relationship with other University units involved in learning and teaching support activities.

The committee has already met with OEP managers and representatives from the colleges, Student Services, Computing Services, Communications Services, the Faculty of Graduate Studies and the U of G Library, and is now seeking input from faculty, staff, students and alumni of the University.

OEP was created more than 10 years ago, and since then, there has been some confusion on campus about the structure and function of the office, says Gillespie. Established to provide support for all aspects of teaching and learning at the University, the office is made up of five

units.

- The Instructional Support Group is involved in the development of instructional materials, including audio and videotapes, computer course ware and visuals, and printed instructional materials.
- Photographic Services provides photography and film processing services and also includes the OVC media unit, which does biomedical photography and co-ordinates audio-visuals for the college.
- Media Distribution takes care of the distribution, sale and publication of U of G audio-visual and print materials.
- Technical Operations is responsible for supplying and maintaining audio-visual equipment and designing and maintaining classrooms.
- Instructional Development offers teaching improvement workshops, information and consultation, as well as short courses for teaching assistants and new faculty.

OEP is linked to faculty by a network of colleagues from each college who form an advisory body, the Academic Consultant Team.

Recently, OEP identified five areas as its main thrust:

- the support of a positive climate for teaching, including teaching as a scholarly activity;
- the development and maintenance of the physical teaching environment;
- the support of planning activities related to teaching, such as curriculum design and implementation of the University's learning objectives;
- the design and delivery of programs and information about teaching and learning; and
- the development of teaching and learning materials.

The support of teaching as a scholarly activity is a particularly important area for the committee in its review, says Gillespie. "We're looking at just what the role of OEP should be in supporting alternate career paths that would emphasize teaching in a scholarly way."

This would be an expanded emphasis for OEP and would involve providing support for faculty who want to tackle their teaching in a more scholarly way, he says. This

Continued on page 2.

Students prepare for College Royal

U of G students invite you to bring your family and enjoy the fun at their annual College Royal open house March 10 to 12.

Each year, Guelph students host up to 30,000 people during the three-day event. College Royal has become a tradition for many Ontario families, who enjoy everything from the Friday night dog show to the Sunday afternoon alumni square dance competition.

Nearly every building on campus will be open March 11 and 12 and will be filled with student displays and demonstrations. A free shuttle bus will be available from 9 a.m. to 5 p.m. Saturday and from 11 a.m. to 5 p.m. Sunday to help people get to events as far apart as the HAFA

Restaurant, The Arboretum Nature Centre and the Department of Animal Science's petting zoo.

College Royal visitors will be able to buy a 25-cent ice cream cone, play computer games, learn about human anatomy, watch live animal surgery and visit a student art show. They'll be entertained by the always-popular magic show, Old MacDonald's Farm, the annual cat show, drama department rehearsals, livestock judging and swirling square dancers.

The theme of this year's event, "Achievement and Challenge," reflects the University's 25th anniversary theme. Retired CPS dean Earl MacNaughton, chair of the 25th anniversary

committee, will be the College Royal special guest. The official opening with President Brian Segal will take place March 11 at 3:15 p.m. in the Athletics Centre gym.

In addition to family events, College Royal offers prospective students and their parents an opportunity to talk to faculty, admissions officers and students enrolled in the University's academic programs. Displays will be set up in the University Centre courtyard on Saturday and Sunday, with guided tours of the campus and residences available.

College Royal is actually a 10-day-long event designed by students to generate spirit and friendly competition. Leading up to the

final weekend when the campus is open to the public, students will participate in a log-sawing contest, livestock judging, a car rally and the annual College Royal ball, where a male or female student will be named Celebrant.

There is an annual talentfest, to be held March 12 at 2 p.m. in War Memorial Hall. Tickets are \$1.50 at the door. The annual "Curtain Call" musical will run March 9 to 11. Written, directed and performed by students, the rock 'n' roll production "Floored" will offer a light-hearted look at student life in residence. Performances are at 7:30 p.m. March 9 and 10 and at 7 p.m. March 11. Tickets are \$5. O

Letters to the editor

Hats off to early campus planners!

I was highly pleased to read the interview with David Scott, the University's first director of Physical Resources, in the Jan. 18 *At Guelph*. As a grateful recipient of the legacy of his good work, I would like to add to the observations made in your column.

As was pointed out, the University was indeed in a dramatically expanding mode at that time. The implications are that campus planning and architectural history was being made, and that later generations would reap the benefits of the wisdom and good taste of the planning and design decisions made at that time or, conversely, would be offended by them.

There was a variety of players and dynamics in that history-making activity: President J.D. MacLachlan, a Harvard-educated botanist who understood the social and historical significance of the planning commitments about to be made; the Board of Governors, which made a wise choice in hiring consultant Macklin Hancock, an OAC graduate and principal of Project Planning Associates Ltd.; the leading architects and campus planners they retained, which included architect Jose Luis Sert, dean of Harvard's graduate school of design, and campus planner Richard Dober; the project planning staff of landscape architects, urban designers and architects who developed an enduring campus plan; and lastly, Scott, a supportive and especially sensitive Physical Resources director who was to orchestrate the materialization of that visionary planning.

Those of us in the planning field marvelled at the sensitive manner in which he interpreted the aspirations and visions of the administration and the designers, and crystallized them into hard form. Succeeding generations on this campus will appreciate and pay tribute to this man of extraordinary talent, who is not by profession an architect.

I was also interested to read David Scott's views on the design rationale for the core of the campus — namely, to retain the traditional architecture surrounding Johnston Green and to develop nearby a new core based on the existing University Centre, the library and the MacKinnon building. It was the purpose of this new core to create a contemporary symbol for the new University and to create a space, not only artfully composed, but one with enduring social qualities — the heart-centre of the University with its particular and unmistakable genius loci, and with potential to be one of Canada's great architectural spaces.

In view of the current discussions regarding the disposition of Zavitz Hall, it is appropriate to review comprehensively the consequences of any related action within this original planning context. Sert, one of the world's leading architects, his professional colleagues and the Board of Governors made an important long-range decision in creating the later-named Branton Plaza with all its symbolic, esthetic, functional and social implications: that Zavitz Hall, despite its sentimental value, should be removed to create a core that reflects the ideals of a visionary university community.

My architectural colleagues assess Zavitz as a facility not only expensive to renovate, but also as an artifact of little architectural merit — a cottage architecture imposed on an institutional building with too great a variety of building materials. In its place, the landscape would be designed — according to the architectural standards of the surrounding buildings — to create a vitally viable social space for meeting, lounging, speaking and holding rallies, graduation ceremonies and weddings. Clearly, the realization of these objectives should not be prevented.

The discussions to date have focused largely on matters of superficiality and have ignored the far more profound considerations of symbolic and social need associated with a university community that has embraced objectives of a liberal education, to which esthetic and moral maturity are integral.

It is well to remember on this 25th anniversary those original ideals of the first Board of Governors and those of Sert, Hancock and his colleagues — and Scott. Otherwise, what have we to remember?

At the recent anniversary ceremony, former president Burt Matthews exhorted us, in the example of Chicago architect Daniel Burnham, to: "Make no little plans for they have no magic to stir men's blood and probably themselves will not be realized."

Are we therefore engaging in outward displays of embracing vigorously esthetic and moral ideals while, paradoxically, denying the visions of our founders? It is important to review those original visions today.

Victor Chanasyk,
School of Landscape Architecture.

Grey-on-grey 25th anniversary book

In preparation for the coming celebration of the 30th anniversary of my graduation from high school, I was recently thumbing through my worn copy of our class yearbook. Perchance, a shiny, new copy of *The Achievement and Challenge: 25 Years — The University of Guelph*, found its way to the farm, where it came to rest beside my yearbook.

Now, I may be a bit partial (I was editor-in-chief of our '59 extravaganza), but I must confess that in overall design, layout and color selection, my book easily took first prize over the newer publication. It may be the unintended allusion to my generation's hair color, but surely the combined design skills at this institution could have selected a more enticing color mix for the cover than the grey-on-grey. As for the insides, the paperback book is also lacking in imaginative sensitivity.

My own fond and romantic hope is that the University's 50th anniversary publication will document the successes of the second quarter-century in a visually more — much more — appealing manner and that we will look less — much less — like the faceless and shapeless institution that some of us feel, at times, we are close to becoming.

Prof. Chandler Kirwin,
Fine Art.

Walkways aren't for vehicles

On Feb. 9, a large University van proceeded from near Johnston Hall, down the ramps between the library and the MacKinnon building and then across Branton Plaza, finally parking at the Landscape Architecture building.

There was absolutely no excuse for this. The driver wasn't making deliveries and he didn't make stops between Johnston Hall and the Landscape Architecture building. This route is

particularly dangerous, especially for people exiting the library. And although I have no complaints about this driver — he slowed down and was very careful — there are other University "cowboys" who are not so careful.

It is time something was done about this dangerous practice of driving over walks. People do not drive over their sidewalks and grass to get to their own front doors, so why should they be allowed to do the equivalent here?

Prof. Michael Brookfield,
Land Resource Science.

At Guelph

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Boehnert is London semester co-ordinator

Students interested in applying for the 1990 London semester are invited to attend an information meeting Feb. 20 at 8 p.m. in Room 116, MacKinnon building.

The program offers students in their third or higher semester an opportunity to spend time abroad as part of their regular BA studies. It is offered only in the winter semester and runs the same length of time as a regular semester at Guelph.

Interested students will have an opportunity to meet next year's London semester co-ordinator, Prof. Joanna Boehnert, Psychology, and two former co-ordinators, Prof. Leslie Marshall, English Language and Literature, and Prof. Ken Menzies, Sociology and Anthropology, as well as students who have participated in the

program.

Courses offered next year in London include "London Studies in the Social Sciences: Social Services in London" and "Social Interactions," both taught by Boehnert. Prof. Gunnar Boehnert, History, will teach the course "Europe in 1992." The semester will also feature courses in drama, art and music.

The first deadline for applications is April 1. Late applications will be accepted for late deadlines of Aug. 1 and Oct. 1, but most spots will be filled from the April 1 set of applicants. Those who cannot attend the meeting can get more information from Boehnert Tuesday afternoons in her office, Room 452, MacKinnon building, or from the BA counselling office in Room 052, MacKinnon. O

People and pets speaker is Guelph alumnus

Veterinarian Bruce Fogle, a 1970 graduate of OVC and a familiar figure on British television, will be on campus Feb. 24 to discuss "People and Pets, Pets and Practice: Are We Going to the Dogs?"

A former veterinary surgeon at Regent's Park Zoo in London, England, and former president of the Royal College of Veterinary Surgeons, Fogle established his own practice in London in 1973. A frequent guest on television and radio programs in Europe and North America, he was presenter of the "Good Companions" program on Thames TV in 1985 and "London Walkies" in 1988, and was associate producer and presenter for the BBC series "Petwatch" in 1986.

While a student at Guelph, Fogle was editor of the *Ontario* and has gone on to write a

number of books, including *Pets and Their People*, *Games Pets Play*, *Paws Across London* and *The Dog's Mind*. He is founder and vice-chair of Hearing Dogs for the Deaf, now the largest organization of its kind in the world, and co-founder of the Society for Companion Animal Studies.

He organized and chaired the first international meeting on the human/companion animal bond in 1980 and was keynote speaker of "People-Pet Relations," a conference at the University of Pennsylvania in 1982. He has lectured around the world on veterinary ethics and the changing role of the veterinarian.

Fogle's lecture begins at 12:10 p.m. in War Memorial Hall. Admission is free, and everyone is welcome. O

OEP future Continued from page 1.

would include helping faculty design experiments to find out what teaching methods work best in the classroom, helping them disseminate their findings to other faculty on campus and across the country, and making them aware of the research that already exists.

This expanded role for OEP is just one of the areas in which the review committee wants to receive input from the University community, says Gillespie. More generally, they'd like to hear what people think the goals of OEP should be and what kind of activities OEP should pursue in the future.

Input from the University community is vital, he says. "We need faculty reaction to this review because they're the people that OEP is there for. But the work of OEP also affects students and others in the University, so we hope to hear from them as well. We need to do whatever we can to enhance the positive impact of OEP on the University

community."

The OEP Mandate Review Committee would like to have written comments on the role of OEP by March 1. Send them to the committee care of the University secretariat, Level 4, University Centre.

Other members of the committee are Prof. Joanna Boehnert, Psychology; Prof. Terry Crowley, acting director of the University School of Continuing Education; Prof. Norman Gibbins, acting dean of CBS; Prof. Ernie McFarland, Physics; Prof. Joe Mokanski, Mathematics and Statistics; Peggy Patterson, Student Affairs; Prof. Bruce Ryan, acting dean of FACS; and Prof. Gary Partlow, Biomedical Sciences. O

Our people

Prof. Keith Slater, Consumer Studies, has been elected an honorary member of the Hungarian Society of Textile Technology and Science. The election of a non-Hungarian to receive this privilege is rare. Slater has been invited to Budapest every third year for the past 20 years as a major speaker at the international conferences organized triennially by the society, and his election reflects his internationally acclaimed contributions to the area of textile science. O



SPACE RACER

Astronaut Roberta Bondar proudly wears her OAC '68 sweater while telling an appreciative audience about training for space travel. She was the first speaker in the achievers lecture series, which continues throughout the year as part of U of G's 25th anniversary celebrations.

Photo by David Thomas, PRI

New space created for graduate students

More than \$1 million from the provincial government has been allocated for graduate student support and facilities at U of G. About \$300,000 of the money has been

committed to providing badly needed study space for graduate students, and more than \$800,000 has been earmarked for teaching and research assistant positions and other support,

says Prof. Leonard Conolly, associate vice-president, academic. The money came from accessibility funds from the Ministry of Colleges and Universities.

"This significantly enhances the quality and quantity of space available to graduate students," says Conolly. The largest renovation was in Massey Hall, where 49 study areas for students in the colleges of Arts and Social Science and the Department of Agricultural Economics and Business were created from space that had been used to store books, at a cost of about \$130,000.

Twenty-two spaces were made available in the library, and funds have been allocated to several other departments for space renovations for graduate students.

"We're really very fortunate that the old Massey library was available — it was a stroke of luck," says Prof. Doug Ormrod, dean of graduate studies. "There's still a net shortage (of study space), so we'll have to keep our eyes open for further opportunities."

Conolly says the current funding "by no means solves all our problems." Graduate student enrolment in the fall semester was up about 10 per cent from a year earlier.

The University has requested further capital accessibility funding from MCU for additional space, some of which could be used for graduate students, he says.

Joseph Woods, president of the Graduate Students Association, says the renovations show the commitment of the University to solving its space problems, and hopes this commitment will continue in future. ○



It used to be storage space; now it's study space. In the newly renovated area in Massey Hall for graduate students are, left to right: Prof. Jack MacDonald, vice-president, academic; Prof. Leonard Conolly, associate vice-president, academic; Joseph Woods, president of the

Graduate Students Association; Joshua Mutunga, a graduate student in the Department of Agricultural Economics and Business; and Prof. Doug Ormrod, dean of graduate studies.

Photo by David Thomas, PRT

CIBC celebrates ties with big donation

The Campaign has received a \$375,000 donation from the Canadian Imperial Bank of Commerce. Al Flood, CIBC president, corporate bank, presented a four-foot-long cheque to President Brian Segal at a ceremony Feb. 7 at the bank's main Guelph branch, in St. George's Square.

"CIBC has a long tradition of service to Canadians, as does the University of Guelph," said Segal. "Both institutions have contributed to the success of many communities across the country and have shared a profound interest in the growth of the city of Guelph."

CIBC ties to the city date back to 1868 when its parent institution, the Canadian Bank of Commerce, first opened its doors in Guelph. CIBC ties to the University include Flood, who is honorary treasurer of The Campaign, and CIBC executive vice-president of human resources, Phil Cotton, who has been a member of Board of Governors for the past six years.

CIBC's contribution will support campaign projects such as the construction of an environmental biology/horticulture building, an addition to the FACS building and the renovation of teaching and research facilities at the Veterinary Teaching Hospital.

"This is a substantial gift," Segal told Flood. "On behalf of the University, I would like to express our gratitude to the bank, to you and to your shareholders." ○

Internal reviews show departments where they're going

by Barbara Chance

U of G's internal review process is making a difference on campus, says Prof. Dave Stanley, Food Science, co-ordinator of the internal review committees.

Initiated two years ago in response to the University's aims document, *Toward 2000*, which says Guelph must strive to foster excellence in all its programs and activities, the reviews are giving departments "a better idea of where they are, where they're going and how they're going to get there," Stanley says.

To date, three reviews have been completed — in the departments of Veterinary Microbiology and Immunology, Fine Art and Molecular Biology and Genetics — and others are under way or upcoming in the School of Hotel and Food Administration and in the departments of Environmental Biology, Clinical Studies, Pathology, Microbiology, Zoology, Psychology, Agricultural Economics and Business, and Computing and Information Science.

The purpose of the reviews is to strengthen and improve the University's programs, says Stanley, who has a 30-per-cent secondment to the office of the vice-president, academic, to administer the program. His role, he says, is not to enforce the review process, but to "see that it goes smoothly and easily, that it's a good experience and that people learn from it."

When Guelph began the reviews in early 1987, becoming one of the first universities in Canada to do so, college deans were asked which departments they thought would benefit most. "Their decisions had nothing to do with the quality of a department," says Stanley. In some cases, a review seemed appropriate simply because it was time for a new chair to be appointed.

Self-study documents

Once a department is selected for review, Stanley goes in to talk first to the chair, then to the entire department as a group, to explain what the process is about and how it can benefit them. They are then asked to put together a self-study document, "taking a look at themselves, where they are, where they want to go and how the University can help them get there," says Stanley.

The group meetings are a good opportunity for faculty to exchange ideas and learn more about each other and about themselves, he says. "Some people are reluctant to express their views. And some people don't want to look at themselves. And sometimes there are schisms in a department to the point where people won't speak to each other when they pass in the hall. But in the internal review process, everyone gets

jammed together in a room. It's like electing a pope — they can't come out until it's done."

When the reviews first began, there was some resistance from faculty, says Stanley. "People thought, and rightly so, that they'd been reviewed to death. But the reviews that have been done in the past have been autocratic, outwardly directed. These reviews are done in the department. They are not imposed. They give people an opportunity to take a quiet, introspective look at their department and its role in the University, in a non-threatening way."

Stanley says he gives as little direction as possible to departments while they work on their self-study documents. "I don't say 'Here's the form; fill it out.' All departments are different — they have to find their own way of doing it. I help them as much as I can, but I don't try to constrict them in their response. They can tell their story any way they want to. And they can do it at their own pace."

Once the document is completed, a review committee is assembled, consisting of two people from outside the University and two from within. Although the academic vice-president makes the final decision on the committee's composition, the department can suggest possible reviewers.

The committee spends a few days in the department, looking at the facilities, talking to faculty, students and people who interact with the department, then prepares a report. This report is presented to the department, which studies it and makes a formal reply.

The next step is for the department chair to meet with the college dean and the academic vice-president to try to work out solutions to any problems.

"Sometimes the answer is money," says Stanley. "And sometimes the answer is other resources. I keep a record of the recommendations and review them to make sure they don't fall between the cracks, to make sure they get done."

When the review is all over, says Stanley, "the department is left with more direction and with some problems ironed out. The process makes for better communication within the department. And the department chair has a better idea of where faculty want to go."

Of course, some problems may never get solved, he says. "Just like in a marriage, sometimes there are irreconcilable differences in a department. But at least you get people to look at it, face up to it and not bury it."

The reviews are not a panacea, says Stanley, "but they do a lot of good, don't cost a lot and are a way for people at the University to feel like they're making a contribution. It's a chance for them to air their views and get a better idea of

how they fit into the big picture on campus."

And although the idea of the reviews is not to compare departments within the University, he says, they do give people an opportunity to place themselves within the context of other units that do similar things in other universities in North America.

Turning point

For the Department of Fine Art, the internal review will one day be seen as a turning point in its history, says the department's new chair, Prof. Ron Shuebrook.

Questions raised in the Fine Art review covered a wide range of issues, including the focus of the department, the limitations in its physical facilities, curriculum development, the gender imbalance in faculty, collegiality, the use of sessionals, faculty evaluation procedures, safety hazards and the department's relationship with the Macdonald Stewart Art Centre.

"It was an opportunity to take stock and determine where the department was going," says Shuebrook. "It has helped everybody have a better understanding of what the department does well, where it needs improvement and what the University needs to give us to help carry out that mission."

Before the internal review, "this department wasn't on any priority list at all," says Shuebrook. "Now the University understands the achievements of people in the department and understands what the department needs. And it has realized that it has to make a different kind of commitment to the department."

The department's biggest concern is its overburdened facilities in Zavitz Hall. The building itself poses fire and health hazards, says Shuebrook, and the shortage of space has limited growth in the department. The internal review committee helped assess and identify those problems, reinforcing concerns that were often expressed within the department, but were not well appreciated outside, he says.

Out of the internal review has also come a restructuring and strengthening of the fine art curriculum, as well as a clearer definition of what the department needs in new faculty appointments. Shuebrook says he, himself, was hired for his position because of a decision that came out of the review to move the department towards more of a studio focus, rather than theory and art history. Shuebrook has more of a studio background than any previous chair of the department.

As part of the review, Fine Art also took a close look at its use of sessional instructors and found that they were teaching a large proportion of the department's courses — and not

necessarily under the best of conditions. The review committee pointed out, for example, that sessional instructors were taking on individual study courses without getting paid for them.

"These kinds of situations grow organically," says Shuebrook. "If you don't evaluate them from a distance, they can grow into a crisis."

The department has now better defined its needs in the area of sessionals and part-time staff, he says. "Now we are actively recruiting sessionals who suit our needs, rather than just anyone who applies."

Other effects of the review are rippling slowly but positively throughout the department, says Shuebrook. Steps are being taken to correct the gender imbalance — only two of 12 full-time faculty are women — by actively seeking out female applicants for faculty positions. The department is looking for alternatives to its practice of double layering courses (running courses of different levels at the same time in the same studio with the same instructor). Shuebrook is also trying to cultivate a more collegial atmosphere within the department and looking for ways to make better use of the Macdonald Stewart Art Centre.

"The department found the whole review exercise extremely useful," says Shuebrook. "This is the first time the department has looked at itself carefully and had a chance to show the University what it does and what it can do. We've got a long way to go, but the support the University seems to be giving us is very encouraging. It makes faculty here feel like they're not just part of this department, but part of the entire University."

Critical look

For Prof. Bruce Wilkie, the review of Veterinary Microbiology and Immunology was beneficial to him as a new chair because it gave him a good overview of the department's history and where it might go. It was also useful to the department as a whole "because we had to take a critical look at ourselves," he says.

But in terms of what the review committee uncovered, Wilkie isn't sure the review was worth the time and effort involved. "What they found was that we are a good department that has been doing things reasonably well and has no major problems," says Wilkie. "That's fine, nice, reassuring to hear, but not tremendously cost-effective for us. The review is time-consuming and labor-intensive. It's also intellectually intensive. Had problems been disclosed and acted on, it would have been much more useful for us."

Continued on page 4.

Prof. John McMurtry's call for "scholarly standards" and "genuine independent evidence" (*At Guelph*, Jan. 25) is to be applauded. The Senate Standing Committee on International Activities definitely requires independent external sources of information if the committee is going to be viewed as impartial.

I agree with the main thrust of McMurtry's article insofar as he is arguing that the committee should have a "proper factual basis on which to make its judgments." Moreover, I would like to again commend McMurtry for bringing human rights issues to the forefront. Moral and ethical issues should not be hidden in "subcommittees" but should be considered by the standing committee as a whole.

In addition to experts from Amnesty International and other organizations, I believe we should invite academics who have published scholarly work on the history, culture and politics of Indonesia, such as Willem Wertheim of Wageningen, Geoff Hainsworth of the University of British Columbia and Ben Anderson of Cornell.

Because of McMurtry's call for "scholarly standards," however, it is all the more distressing to me that he tends to disregard such standards himself. He has never published any scholarly work on Indonesia. That does not disqualify him from speaking out, but it does mean that the opinions he expresses are not necessarily gospel fact. His unqualified assertions give a misleading impression.

In the course of making a good argument, McMurtry has made statements that are inaccurate. These principally concern three areas: the Sulawesi project in Indonesia; Indonesia as a modern nation state; and individual participation in research and rural

Internal reviews

Continued from page 3.

The recommendations the committee did make were good ones, says Wilkie. It was suggested, for example, that VMI interact more with other departments on campus. "We've taken that to heart and are trying to build bridges on campus," he says.

The committee also said VMI could use more faculty positions. "It's nice to have that reinforced to the vice-president," says Wilkie. "It brings an objectivity that might not be there when you just review yourself." Because of the review, VMI is gaining a faculty position shared with another department.

VMI faculty were also criticized for how they deal with technical staff. "We hadn't realized there was anything amiss," says Wilkie. "So in this way, we did benefit from having an impartial, outside review."

When the review began, he says, VMI faculty expressed concern that "there was too much navel-gazing going on." But as the review progressed, "we thought a lot more positively of the process. It was actually kind of fun. Faculty all sat around the table and dealt with the issues, acting as an academic family. It brought us together as a team. And we did gain some insights into ourselves."

But now that it's over, he says, the question remains: "Was it worth the effort if we were okay? You can spend a lot of hours involved in a review, and if it doesn't uncover any major problems, if nothing comes out of it, then it's kind of expensive insurance, isn't it?"

Prof. Ross Nazar, chair of Molecular Biology and Genetics, says that for his department, the internal review process was a positive experience and "quite painless." But he's reserving judgment on just how positive it is until he sees whether the recommendations that came out of the review are followed up.

"The review was a good opportunity to have our views heard by the administration," he says. "That means problems we had recognized internally are now recognized externally as well. In that way, it was a positive process. But we'll consider it even more positive if some of our points are acted on."

Stanley says all academic units on campus will eventually be reviewed, and "then we'll start all over again." Ideally, he says, departments would be reviewed about once every five to seven years. □

Committee reviews CIS

As part of the internal review process now underway in the Department of Computing and Information Science, external evaluators will be visiting the department Feb. 27 and 28 and March 1. Anyone wishing to meet with the review committee should call Prof. Dave Stanley at Ext. 2695 or Ext. 3846. □

development activities in Indonesia.

I will leave the people who are responsible for the Sulawesi project to defend the project as a whole again, as Prof. Harry Cummings has already attempted to do. (See *At Guelph*, April 6, 1988.) My own participation in the Sulawesi project has been peripheral. My academic interest in Indonesia began in the early 1970s, and I wrote my PhD thesis on Dutch colonialism in the Netherlands East Indies.

I do believe, however, that rural and regional development in Sulawesi is defensible, as I have previously argued (*At Guelph*, Feb. 10, 1988). Basically, as I see it, the ethical question involves an "ethic of responsibility." That is part of the reason why these issues are so important.

I would like to point out, however, that with respect to the Sulawesi project itself, McMurtry's arguments do not accord with my on-site investigations as an unpaid short-term consultant from March to June 1988 in South and Southeast Sulawesi.

My research on local, integrated resettlement efforts indicates that, at least with respect to that aspect of the Sulawesi project, it is a bit far-fetched to argue that we are strengthening a murderous dictatorship in its oppression of outlying areas. Instead, the aspects of the project that I studied in detail are genuine attempts at improving the welfare and living conditions of children, women and men. They have almost no direct impact on the government of Indonesia.

The village head of Waburense-Kaudani, Pak Amir Loong, is in many respects comparable to Chief Gary Potts of the Teme-Augama nation. Just as the Mulrooney "regime" is not dependent on the Teme-Augama's good will, the Suharto government is not more likely to stay in power simply because we help poor rural Bajo cultivators change from a migratory lifestyle and get a roof over their heads.

I am more concerned, however, about the second and third points. McMurtry makes sweeping generalizations about Indonesia that do not accord with scholarly understanding. He does not, for example, evaluate *Pancasila* (the Indonesian political philosophy) in terms of its modernizing aspects, such as its resistance to an Iranian-style Islamic fundamentalist state.

The Tanjung Priok riots that Amnesty International reports on as human rights violations had to do with an attempt at discouraging Islamic fundamentalism. Suharto is not an Ayatollah.

Similarly, McMurtry slides over the issue of the character of Indonesian government by use of connotative terms. Indonesia is not a military dictatorship along the lines of Paraguay or Haiti. Today there is a mix of civilian and military interest groups and an attempt to encourage the development of civilian administration at the local level.

We have to take into account the historical development of the current situation and the involvement of the United States and the United Nations in the events of 1965/66 and the early 1970s. Blanket condemnation is not scholarship.

It is definitely true that there have been human rights violations in Indonesia, starting in the pre-colonial era. During the period of the Netherlands East Indies, there were significant human rights violations, just as there were in the

British colonies, including Canada. The current government did not start with a blank slate. Sukarno's earlier policies were not oriented to international peace. Part of the reason the UN welcomed Suharto's government was that Sukarno had walked out of the UN because of his militaristic stance toward Malaysia.

The UN and the United States supported Indonesia's takeover of Irian Jaya. There is no doubt that large numbers of innocent people have died in East Timor, but we also have to look at the role of Portugal and the United States in that situation.

The issues simply are not black and white, except to someone who takes a consistent "ethic of ultimate values" stance and denounces all involvement with the United States and the UN. What happens in Indonesia is part of a "world system" that Canada also contributes to. We would be indirectly involved in Indonesia even if we never had any direct university involvement in rural development there simply as a product of "free trade" with the United States.

The committee should not slide over human rights abuses, but it must also include in its "proper factual basis" an assessment of the possibilities of economic, social and political development within the context of a "capitalist world system" that we benefit from.

The third issue concerns participation in research in Indonesia in general. Polemical rhetoric and slanderous insinuations about personal motives should not pass as scholarly opinion. Prof. Bill Graf has already created the mood for such insinuations (*At Guelph*, March 23, 1988). Now McMurtry continues such blanket judgments.

Both writers resort to unfounded *ad hominem* arguments. I do not like to be tarred with the same brush, even if it was not intended. Such statements leave misleading impressions in the minds of students and others not familiar with the complexities of the situation. It is simply not true that any involvement with Indonesia should be put down to unwarranted self-interest.

I hope we can keep in mind the important distinction between studying a phenomenon and approving of it. There is a legitimate place for the study of Indonesia at Guelph. In fact, I hope that a portion of the funds received for administering the Sulawesi project will be released for pure research and for an internationally known Indonesian scholar to come to Guelph as a visiting professor.

Finally, ethical questions cannot be settled by experts or committees. I believe that scholarly work on Indonesia—including pure and applied research on rural development—is more likely to be of benefit than of harm.

McMurtry has every right to disagree, but then let him make his own value ethic clear. It is much easier to denounce than it is to propose. Can we, for example, justify development research or applied development work in any Third World country that does not have a spotless human rights record? Which underdeveloped country could possibly justify?

Prof. David Walner-Toews has pointed out that a "cruel choice" must be made (*At Guelph*, April 20, 1988). It is difficult, for example, to justify involvement outside Canada with the People's Republic of China, which is viewed by

Amnesty International as guilty of more than half a million deaths and other serious human rights violations in Tibet and elsewhere.

How could we even justify joint research or participation in conferences in the United States in light of U.S. human rights violations around the world, especially in Vietnam and in the United States itself? (Amnesty consistently lists the States as a major violator because of racism and use of capital punishment.)

An "ethic of ultimate values" such as McMurtry and Graf maintain would even make it very difficult to justify receiving money from a university in a former "white settler colony," where native Canadians have consistently had their human rights violated. In North America, we need to remember our own history of exploitation and oppression, on which our current prosperity is partly built.

During periods of rapid economic and political change, there have been large numbers of people who have suffered from what might be called the "dialectic of history." These include Japanese-Canadians during the Second World War and native people in North America. We cannot undo the past, but we can work towards a better future. We must try to act responsibly to alleviate oppression, class hatred, racism and sexism. But responsible action does not mean hiding in an ivory tower of purity.

The Standing Committee on International Activities should not be a "stacked deck," but in accepting that argument, we should not at the same time accept rhetorical flourishes as objective theorizing. The fact of human rights abuses is not the only point at issue. If it were, we ultimately could not justify any involvement outside Canada and would be hard-pressed to justify our right to enjoy the rights and privileges that we take for granted in this country.

I am very sympathetic with the obvious sincerity of McMurtry and Graf in their quest for recognition of life and death ethical issues (*At Guelph*, March 23, 1988), but I do not accept the blunt instruments they are using to try to improve our academic health.

Prof. Hans Bakker
Sociology and Anthropology

Positions elsewhere

The University of Calgary is searching for a vice-president academic and provost to assume duties July 1 for a five-year term. Send applications and nominations by Feb. 28 to: Carol Clarke, Executive Assistant to the President, University of Calgary, 2500 University Dr. N.W., Calgary, Alberta T2N 1N4.

The University of Calgary is also seeking a director of public affairs. Candidates should submit applications and the names of three references by Feb. 20 to: W.E. Selby, Director, Community Relations.

Trent University is seeking a vice-president, university services. Applicants should send curriculum vitae and the names of three referees by March 30 to: N.E. Smith, University Secretary, Peterborough, Ontario, K9J 7B8. □

Research opportunities available for graduate students in Sulawesi project

Since the Sulawesi Regional Development Project started work in Indonesia in 1984, an effort has been made to link it to teaching and research on campus.

In teaching, faculty in a number of departments have used the project as a case study or have asked people involved in the project to give presentations to graduate and undergraduate courses. In research, the most active interest has been shown by graduate students.

Graduate students with an interest in international development and a wish to do research in Sulawesi or Indonesia often start by spending time with faculty who have worked in Indonesia or by talking to project staff. Faculty involved in project-related and Sulawesi activity have included Prof. Michael Moss, Barry Smit and Alun Joseph, Department of Geography; Allan Dyer, Computing and Information Science; John Fitzgibbon, Jackie Wolfe and myself, University School of Rural Planning and Development (USRPD); Hans Bakker, Sociology and Anthropology; Kris Inwood, Economics; and Truman Phillips, Agricultural Economics and Business.

A project research associate, Barbara Kirby, is available to assist in identifying research materials.

Six graduate theses have been completed and two are under way. Students spend from three months to a year in Sulawesi and often learn the rudiments of the national language, Bahasa Indonesia.

Completed project-supported graduate student research includes a study of rural health delivery systems by Judy Halladay and an evaluation of the effectiveness of extension services by Alec Drysdale, both students in the Department of Rural Extension Studies. Also completed are an evaluation of mechanisms for monitoring rural development projects by Ron Martens, a study of women's labor in rice agriculture systems by Fiona MacPhail, a study of co-operative development in cashew-producing areas by Stephan Wodicka, and an examination of women's participation in social forestry programs by Jennifer Leith, all students in USRPD.

Currently in progress are studies on the training needs for PKK (family welfare

movement) members to broaden women's participation in development by Janet Sillifant, and the protection of mangrove ecosystems and planning for coastal communities by Erik Davies, both students in USRPD.

Although the Sulawesi project does not have money to support this graduate research, its staff members provide logistical and moral support while in the field and take considerable interest in the results of the research.

Several of the students have applied for and received scholarship support from the Canadian International Development Agency. In addition, USRPD has an international outreach fund to support rural development research in Indonesia or elsewhere in the Third World. Application deadline is March 17.

I would be pleased to respond to any questions about research opportunities associated with the project and to attend courses for discussion of the project. I can be reached in Room 123 of Johnston Hall at Ext. 6783.

Prof. Harry Cummings,
USRPD/Department of Agriculture Economics and Business.

University committed to environmental responsibility

U of G is committed to fostering environmental responsibility, says President Brian Segal.

"The University is most conscious of its responsibility to improve our environment and to pursue its commitment, to ensure that sustainable development becomes a national rallying point for all sectors of society," Segal said as he opened the first session of the "Our Common Future" series Feb. 6 at The Arboretum.

The free six-part series on sustainable development is sponsored by the University and the City of Guelph. Continuing to March 8, the series brings together environmental activists, politicians, business people, industrialist economists and local citizens to debate the viability of sustainable development as an answer to our problems.

Segal outlined some of the avenues through which the University is fostering environmental responsibility, in addition to hosting this series:

- the offering of courses in environmental management, resource stewardship, rural community development and world food systems;
- the addition of environmental and food engineering as majors in the School of Engineering;
- research in soil and water conservation;
- the use of a naturally occurring fungus to control dandelions at the Turgrass Institute;
- the development of a compost by the School of Engineering and the Department of Land Resource Science to use animal wastes productively;
- the development of crops that can grow under more difficult conditions; and
- the recommendations of the task force on rural resources.

Segal also outlined the University's plans to expand its recycling program.

"The efforts undertaken by the University in its recycling efforts will continue and be expanded over the next number of years, so that the University will provide leadership to other institutions, both within the public and private sectors," he said.

Segal said that universities, as the major societal institutions with a mandate to provide

higher education and training, disseminate knowledge and generate debate, have a major role to play in building consensus and stimulating more integrated solutions to pressing social and economic problems.

Guest speaker Joseph Collins, director of the Institute for Food Development Policy in San Francisco and co-author of *Food First: Beyond the Myths of Scarcity*, told the audience that world hunger is caused primarily by political — not technological — factors. Many people in the Third World lack food because they lack democracy, he said. They don't have power over their own destiny.

"It's not scarcity, it's not nature," he said. "It is the scarcity of democracy." In many countries, there are anti-democratic institutions ranging from the family — where women do most of the work in growing food but are last to be fed — to multinational corporations controlling the markets in cash crops.

Collins said that westerners need to examine the barriers to democratization and should get involved with aid institutions that are helping people in the Third World organize and empower themselves to put pressure on governments, landlords and multinational corporations.

The sustainable development series is organized by Prof. Tony Fuller and Marc Patry, University School of Rural Planning and Development; Tom Klein Beermink and Sheila Wilmot, Ontario Public Interest Research Group; Bill Barrett, Guelph International Resource Centre; and Susan James, Development Education Program.

The series is sponsored by USRPD, OPIRG, GIRC, the Department of Land Resource Science, the Development Education Program and The Arboretum.

At the next session Feb. 15, a lawyer, a native Canadian and an eco-feminist will provide three views of sustainable development.

Ralph Osterwald is an environmental lawyer with the Canadian Permanent Mission to the UN and an adviser to Joe Clark, minister of foreign affairs. Thom Alozie is a professor of native studies at Laurentian University. Writer and editor Jennifer Sells is a graduate student in Canadian Studies at Trent University.

Focus First among ship builders



Prof. Phil Sweeney, Microbiology, with his newest ship, "HMS Sovereign of the Seas,"
Photo by David Thomas, PRI

"HMS Sovereign of the Seas" was the pride of Charles I's fleet. It's also the pride of Phil Sweeney's fleet.

The ship, described by Sweeney as "the most ornate ship ever built," cost Charles I so much money that he had to raise taxes to complete it. The model that Sweeney built may not have cost as much, but it was constructed just as meticulously — it took him more than 800 hours.

"I like to work with my hands, and I need only four or five hours of sleep a night, so I have some spare time other people don't have," says Sweeney, who is a faculty member in the Department of Microbiology. When he's not involved with his academic work in cell structure biology and electron microscopy, Sweeney fills his time with his many hobbies, including photography, gardening and building model ships.

Sweeney has completed four models in 11 years. "The Bluenose," "Cutty Sark," "Victory" and "Sovereign" are on display at the Faculty Club until the end of this month.

The models come in kits, but building the ship is no easy feat. In fact, Sweeney says, the directions that come with the models aren't always exact. He seeks out plans from the original ship and modifies the structure.

The intricate details of the ships, such as

the weaponry and rigging, require more than just time. They require patience and dexterity as well. Sweeney developed those skills building model airplanes as a child, doing furniture refinishing and building remote control cars and speedboats.

In the future, he plans to build the "USS Constitution" and more model airplanes. "As I told my kids, my house is so full that the only place left to put stuff is to hang it from the ceiling," he says. The plane he'd most like to build is the Red Baron's triplane.

Sweeney's photographs have also been on display at the Faculty Club. He's been taking pictures since he had a box camera while growing up in rural Nova Scotia. He still spends his summers there, and many of his nature shots are of scenery at his cottage.

He loves to go for walks early in the morning, and that's when he sees the natural beauty of the world. "Mother Nature prints a pretty picture. It's a shame that most people don't take time to notice."

He says keeping busy with his hobbies is a great diversion from the scientific work he loves so much. "I have enjoyed my life because I've done a great variety of things, and enjoyed most of them." O

Education watch

Ontario orders review of enrolment reporting procedures

The Ministry of Colleges and Universities will review enrolment reporting procedures at all the province's universities, MCU Minister Lyn McLeod has announced. The review was ordered after the provincial auditor's report disputed the way Trent University reported its enrolments for provincial grant calculation purposes. The auditor concluded that Trent had received \$11 million in operating grants between 1982/83 and 1986/87 "on the basis of criteria which had not received ministry approval." The report contended that the university made "significant changes" to its criteria for counting honor students without first obtaining ministry approval. The university did obtain retroactive approval for the changes and the ministry agreed "that there has been, in fact, no overpayment of operating grants to Trent," the report said. The auditor has completed an audit at U of G as part of an ongoing plan to review the financial operations of three universities. (See *At Guelph* Sept. 28, 1988.) Results of Guelph's audit will be included in the next auditor's report this fall.

Expenditures per student rise more slowly than inflation

From 1977/78 to 1986/87, university expenditures per full-time equivalent student rose by 5.5 per cent per year, while inflation grew by an annual average of 7.7 per cent during the same period, says a Statistics Canada report. The gap was more evident from 1977/78 to 1983/84 when expenditures per FTE student grew by 6.4 per cent annually while the inflation rate stood at 9.5 per cent a year. As well, the provinces' share of operating funds declined from 82.1 per cent to 79.3 per cent over the past decade, StatsCan reports. At the same time, student fees rose from 13.8 per cent to roughly 16 per cent of university operating income. Universities also saw a decline in the federal government's contribution to research funds, which went from a high of 60.3 per cent in 1984/85 to 56.6 per cent in 1986/87. For more information, including provincial analyses, call Claudio Pagliarello at 613-951-1508. The report, *University Finance Trend Analysis*, can be ordered from Statistics Canada, Publication Sales, Ottawa K1A 0T6, call toll free 1-800-267-6677.

Survey highlights problems encountered by foreign students

Difficulty in dealing with Canadian immigration officials, work restrictions, the high cost of living and loneliness are among problems reported by foreign students who took part in a survey by the Canadian Bureau for International Education (CBIE). Close to 1,500 visa students in 20 universities responded to a questionnaire on their backgrounds and experiences. One-quarter of respondents reported having had "considerable" difficulties with immigration official at point of entry in Canada. As well, respondents unanimously agreed that changes to employment and immigration regulations to ease work restrictions are inadequate. The survey estimates that a typical international student has monthly expenses of \$589, in addition to annual educational costs of \$4,000. More than 40 per cent of respondents advocated the reduction or the removal of fee differentials. The 1988 *Survey of International Students in Canadian Universities* can be obtained from the CBIE, 85 Albert St., Suite 1400, Ottawa K1A 6A4. Telephone 613-237-4820.

ONet links researchers to Cray supercomputer

The University of Western Ontario will administer a new data communication network linking six Ontario universities. Waterloo, McMaster, York, Queen's and Toronto are also part of ONet, by which researchers will gain access to the Cray supercomputer at the Ontario Centre for Large-Scale Computation at the University of Toronto. The network will also allow exchanges with university researchers in the United States.



LIBRARY MYSTERY

The library held its first staff contest to commemorate the University's 25th anniversary. Staff were invited to identify objects from various places throughout the library building. The mystery objects ranged from a rod for a card catalogue drawer to a rubber foot for a fiche cabinet. The three-way-tie winners each

successfully identified 34 of 36 items. Acting chief librarian Ellen Pearson, third from left, congratulates the winners, from left to right, Daniela Zadroz, Margaret Williams and Tajinder Kang. Other contests will be held throughout the year.

Photo by David Thomas, PRI

Central FAX phases out

On April 30, Communications Services will discontinue the central FAX service it has operated for the past year in Johnston Hall. Because of the increasing volume of FAX messages at U of G and the decreasing cost of FAX equipment, a growing number of local services are being established at more convenient locations across campus. As of April 30, the central FAX number, E24-9457, will either be transferred to another service or will no longer be available. For more information about the change, call Anil Sheth at Ext. 2725.

Protect your back

The Occupational Health Department is again offering a preventive back exercise program this spring. Beginning in March, the class will be taught by retired Human Biology professor John Powell. For more information, call Jean Wessman of Medical Services at Ext. 2133.

WordPerfect for beginners

The University Centre box office and word processing centre is offering a WordPerfect hands-on course for beginners Sunday afternoons from 1 to 4 p.m. Cost is \$25 for students, \$40 for non-students. For more information or to register, call Ext. 3940.

Non-hour concert

The Department of Music's Thursday noon-hour concert Feb. 16 features mezzo-soprano Carol Ann Feldstein and pianist Leslie De'Ath. Since graduating from Wilfrid Laurier University, Feldstein has appeared with most of the musical organizations in the Guelph area. De'Ath is the principal studio coach in the voice and opera programs at WLU. He is also the keyboard player with the K-W Symphony and Canadian Chamber Ensemble.

Program 1 at 12:10 p.m. will consist of selections from "Samson et Dalila" by C. Saint-Saens; "Ballade of Princess Caraboo" by Nancy Telfer; and "The Physician" and "I Hate Men" by Cole Porter. Program 2 at 1:10 p.m. will feature selections from "Carmen" by G. Bizet; "Canto de Espina" by Miguel Sandoval; and "If Love Were All" and "Nina" (from "Argentina") by Noel Coward.

Guest performers at the Feb. 23 concert are the Royer trio — Kaye Royer on clarinet, Ronald Royer on cello and Manlio Pinto on piano. Program 1 will consist of "Trio for Piano, Clarinet and Cello," Op. 114, and "Hungarian Dance No. 5" by Brahms. Program 2 will feature "Pieces for Clarinet, Cello and Piano," Op. 83, by Max Bruch; Op. 32 by Rachmaninov; "Hungarian Rhapsody No. 12" by Liszt; and "Fantasy Trio for Clarinet, Cello and Piano," Op. 26, by Robert Muczynski. The concerts are in Room 107, MacKinnon building. Admission is free.

Counselling available

The Marriage and Family Therapy Centre in the Department of Family Studies offers professional counselling on marital, family, sexual and relationship issues. For information or an appointment, call Ext. 6335.

Surplus sales

The Surplus Sales Department in Blackwood Hall has the following items available for sale: SD#482 — Pitney Bowes folding machine; SD#525/548/659 — soundproofbooths; SD#597 — six packages of onion skin paper; SD#604 — table tennis tables; SD#625 — VTI 00 terminals and Volker Craig 415 terminals; SD#681 — drafting table; SD#686 — eight-foot arborite-top tables; SD#690 — Olympia manual typewriter; SD#691 — couch/chair; SD#692 — room dividers (various sizes and colors) and storage cabinets (7' x 30' x 18"); microfiche reader, Canon 360. For more information and viewing, call Ext. 8139.

Physics seminar

Prof. Donald Sullivan, Department of Physics, is guest speaker in the department's next seminar Feb. 21. Focusing on "Liquid Crystals, Fluctuations and Membranes," Sullivan will describe studies on the statistical mechanics of periodic layered liquid crystals. It begins at 4 p.m. in Room 113, MacNaughton building. On Feb. 28, Drosko Javonovic of Fermi Lab in Batavia, Illinois, will discuss "Educational Outreach at Fermi Lab."

WUSC sponsors symposium

World University Service of Canada is sponsoring a one-day symposium on Mozambique March 13 from 11 a.m. to 5:30 p.m. at McMaster 6 AT GUELPH/Feb. 15, 1989

University. Special guest is Graca Machel, minister of education for Mozambique. Admission is free, but registration is required. WUSC is also sponsoring a three-day conference with London's Cross Cultural Learner Centre on "Political Development in Central America." It runs March 3 to 5 at the University of Western Ontario. For registration forms or more information, call Dudley Gibbs, Ext. 2991.

CSRC offers self-help workshops

The Counselling and Student Resource Centre is offering a series of self-help workshops and information sessions. They are held in Room 318 of the University Centre in the CSRC area. Find out more about stress and what to do about it at an information session Feb. 16. Learn how to present a seminar and deal with the anxiety involved Feb. 23. Both these sessions run from noon to 1:30 p.m. On March 7 from 7 to 10 p.m., the centre will sponsor a panel discussion on "The Well Woman," covering a number of issues related to women's emotional and physical health. To register, call Ext. 3245.

Murder mystery dinner

The Faculty Club is offering its members a second murder mystery dinner March 8 at 7 p.m. The dinner is presented in conjunction with Theatre Cambridge. Cost is \$15.50 per person. Reserve by Feb. 28 at Ext. 8578.

Pilgrimage to the Ukraine

College of Arts undergraduate student Oleh Bych will lead "A Spiritual Pilgrimage to the Ukraine" May 7 to 21. The tour will visit Kiev, Lviv, Rovno, Moscow and Leningrad. For more information, contact Bych at 94 Neeve St., Guelph N1E 5S1, 763-3975.

Collectables fair

The Guelph Collectables Fair Feb. 19 will feature more than 100 tables of sports memorabilia, records, movie posters and comics. Special guests are former Maple Leaf Jim McKenny and John MacLeod, creator of the comic book *Dishman*. The fair runs from 11 a.m. to 5 p.m. in Peter Clark Hall. Admission is \$3 general and \$2 for students.

Theatre in the Trees

The Arboretum's dinner theatre, Theatre in the Trees, is offering the Neil Simon comedy *I Ought to Be in Pictures*, directed by John Snowdon. Scheduled performances are Feb. 18 and 25, March 4, 11 and 18, April 1, 15, 22 and 29, and May 6. Dinner is at 6:30 p.m.; the play begins at 8 p.m. Cost is \$29.50. Tickets are available at the University Centre box office, Ext. 3940.

Ethics and journalism

Prof. Jay Newman, Philosophy, will discuss ethics and journalism at a public lecture March 8 at Wilfrid Laurier University. Newman, who has been a visiting research fellow at the Calgary Institute for the Humanities for the last five months, will examine the role of journalists and the ideal of a free press. The lecture begins at 8 p.m. in the recital hall of WLU's John Aird Centre.

Psychology colloquium

The Department of Psychology will hold a colloquium Feb. 24 with Gary Dell of the University of Rochester. Dell, a winner of the American Psychological Association's early career award for distinguished scientific contribution to psychology, will discuss "The Linguistic and Psychological Traditions in the Study of Language Production and Speech Errors." It begins at 3 p.m. in Room 236, MacKinnon building.

Computing seminars

Today's topic in Computing Services' lunch-time discussion series is "Statistical Packages." It begins at 12:05 p.m. in Room 204, Computing Services. Next Wednesday, discussion will focus on "Grammar Checking Programs."

What's on at The Arboretum

The Arboretum's annual February frolic is Feb. 19, featuring guided tours of the nature trails at 1:30 and 3:30 p.m. and a concert by the Pentaphonia Brass Quintet at 2:30 p.m. The quintet, consisting of Kenneth Timmish and John Liddle on trumpets, David Burstin on horn, David Sisler on trombone and Brent Adams on tuba, will perform "Fanfare" by Paul Dukas, "Five Miniatures for Five Brasses" by Robert Washburn, "Symphony for Brass, Op. 5," by Victor Ewald, "A Tribute to MGM" arranged

by Paul Nagle, a Stephen Foster medley and "That's A-Plenty" arranged by Jack Gale and "Centone II" by Johann Joseph Fux. Admission is free.

The teaching experience

Guelph high school teacher Patricia Bell and students will discuss "The Classical Experience at Centennial Collegiate" at the next meeting of the Guelph chapter of the Humanities Association of Canada. The lecture begins at 8 p.m. in Room 107, MacKinnon building. Cost is \$5 for non-members, free for members and students.

OVC seminars

The OVC seminar series continues Feb. 22 with Prof. David Walther-Toews, Population Medicine, reading selections of his poetry. It begins at 12:10 p.m. in Room 1438 (formerly 508), Clinical Studies building.

Focus on hunger research

The second annual Hunger Research Briefing and Exchange will be held April 5 to 8 at Brown University in Providence, R.I. The briefing is designed to encourage dialogue among researchers and practitioners concerned with

alleviating hunger. Registration deadline is Feb. 21. Program and registration forms are posted at the Development Education Program office. For more information, call Franlie Allen at Ext. 6915.

Focus on rural extension

The Department of Rural Extension Studies is sponsoring a series of seminars on Thursdays throughout the semester. First in the series is "Brazil Revisited," a comparison of Brazil today and 25 years ago, with Prof. Doug Pletsch, Rural Extension Studies. On March 2, the guest speaker is Pauline Greenhill, a professor of Canadian studies at the University of Waterloo, who will discuss the effects of the influx of urban in-movers into established Ontario rural communities. The seminars run from 2:30 to 4 p.m. in Room 227, MacKinnon building.

Concert to honor Segal

The Department of Music will hold a concert to honor President Brian Segal and the University's 25th anniversary Feb. 25 at 8 p.m. at the Macdonald Stewart Art Centre. Tickets are \$10 general, \$8 for students and seniors, and are available from Patricia Law, Ext. 3988.

Celebrate spring with the 1989 Guelph Spring Festival

Editor's Note: This issue of *At Guelph* contains, for our on-campus readers only, the 1989 Guelph Spring Festival brochure. External readers can obtain a copy from the GSF box office, P.O. Box 1718, Guelph, N1H 6Z9.

Fans of classical or contemporary music, opera or jazz, theatre or film will find a variety of performances to choose from at this year's festival, which runs May 5 to June 3.

The festival opens with "A Night of Glorious Singing." Nicholas Goldschmidt will act as master of ceremonies for this concert, which features soprano Heather Thomson, tenor Richard Margison and baritone Allan Monk singing songs of love, intrigue and passion from grand opera to musical theatre.

A chamber trio composed of pianist John Perry, violinist Steven Stark and cellist Tsuyoshi Tsutsumi will make its world debut May 7 with a program of Beethoven, Shostakovich and Brahms.

The Manitoba Chamber Orchestra will return to the festival May 24, 26, 27 and 28 to present four concerts, featuring guest soloists and three world premiere performances specially commissioned for the festival.

Sacred and classical choral music will be presented by Moscow's Polyansky Choir at Chalmers United Church June 3.

Music lovers will also enjoy brunch and tea concerts with Clazz, a versatile harp and flute duo that will perform "clazzies" from Vivaldi to Glen Miller May 21. On June 16, a cappella singers The Gents will help celebrate the University's 25th anniversary at a special Alumni Weekend concert.

For jazz fans, a concert with the Peter Appleyard Quintet will be followed by a dance and buffet featuring the Appleyard All-Star Swing Fever Big Band June 2.

"Crazy to Kill," a murder mystery opera by John Beckwith and James Reaney, will have its world premiere May 11 at Ross Hall, with additional performances May 12 and 13. It is based on a 1941 mystery novel of the same name by Stratford writer Ann Cardwell, and features a cast of three singers, two actors, 15 puppets and an ending the audience must promise not to tell.

Colin Fox will star in "Guthrie on Guthrie," a one-man show about Tyrone Guthrie, creator of the Stratford Festival, May 6 at War Memorial Hall. The play, performed in Edinburgh, Belfast and Montreal, was recently showcased in New York, and plans are under way for a U.S. and Canadian tour, including performances at the Stratford Festival next September.

The National Tap Dance Company of Canada will perform May 19, presenting fascinating rhythms from Gershwin to Bach.

A mini-festival of new Canadian films will be presented at the Bookshelf Cinema May 29 to June 1. The lineup includes "Pouvoir Intime," "The Outside Change of Maximilian Glick" and "Milk and Honey." Each evening's screening will feature a guest appearance by one of the film's creators or stars. A matinee series for children will run each afternoon at 1:30 p.m.

This year's festival also offers family events, including the return of last year's "Day in the Park." Running May 20 in Goldie Mill Park, it



features local singers, dancers and artisans performing and displaying their wares. A Victoria Day band concert and fireworks display at the Riverside Park Bandshell will be held May 22. Both events are free.

Also for families, *The First Fable*, a magical, mystical play written by Timothy Findley and set to music by John Hawkins, will be presented May 14.

Most GSF events begin at 8 p.m. Ticket prices range from \$5 for children to \$15 and \$20 for adults. A GSF brochure and calendar can be picked up at the Guelph Public Library or at the GSF box office at 10 Carden Street. Tickets can be ordered at the box office, by mail or by phone. Call 821-7570 or toll free 1-800-265-7279 in area codes 519, 415 and 705. O

Awards

Three U of G graduate students were presented with awards at the annual meeting of the Ontario Milk Marketing Board held in Toronto in January. Peter Slade, Department of Food Science, received the William A. Stewart Fellowship. Judith Nemeth, Department of Veterinary Microbiology and Immunology, and David Kelton, Department of Population Medicine, were awarded doctoral fellowships. The awards are part of a long-term commitment by the OMMB to provide support for graduate students who are undertaking thesis research on problems related to the dairy industry.

Alumni House has received two architectural design awards in the last six months. Moffat Kinoshita Associates Inc. of Toronto has informed Al Brown, director of Physical Resources, that the home of the Department of Alumni Affairs and Development has won recognition in the Canadian Wood Council awards program and the award of merit for design excellence from the Hamilton Society of Architects. O

Coming events

WEDNESDAY, Feb. 15

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Feminist and Christian, 10:10 a.m., UC 533; Ecumenical Holy Communion, 12:10 p.m., UC 533; Immanuel Christian Fellowship, 5 to 7 p.m., 287 Water St.; Community Fellowship, 5 to 7 p.m., Chaplain's Lounge, UC Level 3.
Computing Seminar - "Statistical Packages," 12:05 p.m., Computing Services 204.
Art Lecture - Alan Barkley, 2 p.m., Macdonald Stewart Art Centre; 7:30 p.m., Zavitz 212.
Botany Seminar - "The Vascular Cambium and Secondary Phloem Development in Deciduous Hardwoods," Ray Evert, 3 p.m., Botany/Genetics/Zoology 259.
University Achievers - Lawyer Peter Anderson, 5 p.m., UC 103.
Continuing Education - "An Introduction to Family Law," six weeks, 7:30 p.m., register at Ext. 3956/7.
Our Common Future - "Sustainable Development: What Is It? Three Views: Legal, Native and Women," Ralph Osterwald, Jennifer Sells, Thom Alcoze, 7:30 p.m., The Arboretum.

THURSDAY, Feb. 16

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Relationships: The Central Concern of Jesus, 4 p.m., UC 335; Exploration in Meditative Prayer, 5:10 p.m., UC 533; Social Evening, 6 to 9 p.m., UC 334/335.
Information Technology Seminar - "Overview of Database Access," 10 a.m. to noon, Computing Services 204, register at Ext. 6568.
CSRC Information Session - "Stress," noon, UC 318.
Concert - Carol Ann Feldstein, mezzo-soprano, and Leslie De'Ath, piano, 12:10 and 1:10 p.m., MacKinnon 107, free.
Rural Extension Studies Seminar - "Brazil Revisited," Doug Pletsch, 2:30 p.m., MacKinnon 227.
Men's Volleyball - Vs Western, 7:47 p.m., Athletics Centre, \$2.

FRIDAY, Feb. 17

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 8:10 a.m., UC 533.

SATURDAY, Feb. 18

Continuing Education - "Personal Income Tax Preparation," 9 a.m. to 4 p.m., register at Ext. 3956/7.
Dinner Theatre - Theatre in the Trees, *I Ought to Be in Pictures*, 6:30 p.m., Arboretum Centre, \$29.50.
Women's Volleyball - Vs Waterloo, 7 p.m., Athletics Centre.

SUNDAY, Feb. 19

Worship - Morning Worship Service, University Bible Studies, 9 a.m., UC 441; Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry, 8 p.m., UC 533.
Guelph Collectables Fair - Sports, Records, Movie Posters and Comics, 11 a.m. to 5 p.m., Peter Clark Hall, \$3.
The Arboretum - February Frolic - Guided Walks at 1:30 and 3:30 p.m., Nature Centre; Concert, the Pentaphonia Brass Quintet, 2:30 p.m., Arboretum Centre, free.

MONDAY, Feb. 20

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 5:10 p.m., UC 533.
Human Biology Seminar - "Effects of the Mutant Sex-Determining Genotype XXSx on Non-Sex-Determining Phenotypic Features in the Mouse," Stan Blecher, 12:10 p.m., Human Biology 108.
CUSO - Information Meeting, 7:30 p.m., UC 442.
London Semester - Information Meeting, 8 p.m., MacKinnon 116.
Drama - *Arms and the Man*, 8 p.m., Inner Stage, \$4.50.

TUESDAY, Feb. 21

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 12:10 p.m., UC 533; Inquiry into Catholicism, 4 p.m., UC 334; Faithfully Curious, 5

p.m., UC 335.
Science Noon - "Marine Mammals and Man: Conflict and Competition," Keith Ronald, noon, Peter Clark Hall.
Our World - "Is Debt the Wages of African Trade?" 12:10 p.m., UC 441.
Physics Seminar - "Liquid Crystals, Fluctuations and Membranes, Don Sullivan, 4 p.m., MacNaughton 113.
Continuing Education - "Rudiments of Music," six weeks, 7:30 p.m., register at Ext. 3956/7.
Drama - *Arms and the Man*, 8 p.m., Inner Stage, \$4.50.

WEDNESDAY, Feb. 22

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Feminist and Christian, 10:10 a.m., UC 533; Ecumenical Holy Communion, 12:10 p.m., UC 533; Immanuel Christian Fellowship, 5 to 7 p.m., 287 Water St.; Community Fellowship, 5 to 7 p.m., Chaplain's Lounge, UC Level 3.
Computing Seminar - "Grammar Checking Programs," 12:05 p.m., Computing Services 204.
OVC Seminar - Poetry Reading, David Waltner-Toews, 12:10 p.m., Clinical Studies 1438 (508).
Biochemistry Seminar - "Secondary Changes in the Plasma Membrane of Multidrug-Resistant Tumor Cells," Doug Loe, 12:10 p.m., MacNaughton 222.
Art Lecture - Nora Hutchinson, 2 p.m., Macdonald Stewart Art Centre.
University Achievers - Zoo Manager Michael Hackenberger, 5 p.m., UC 103.
Our Common Future - "Sustainable Development: Planning and Management Challenges," John Friedmann and Douglas Hoffman, 7:30 p.m., The Arboretum.
Drama - *Arms and the Man*, 8 p.m., Inner Stage, \$4.50.

THURSDAY, Feb. 23

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Relationships: The Central Concern of Jesus, 4 p.m., UC 335; Exploration in Meditative Prayer, 5:10 p.m., UC 533; Social Evening, 6 to 9 p.m., UC 334/335.
Pathology Seminar - "Pathological Changes Associated with Naturally Occurring Outbreaks of Bacterial Gill Disease in Salmonids," D. Speare, 11:10 a.m., Pathology 220.
CSRC Workshop - "Presenting a Seminar," noon, UC 318.
Concert - The Royer Trio, clarinet, cello and piano, 12:10 and 1:10 p.m., MacKinnon 107, free.
Drama - *Arms and the Man*, 8 p.m., Inner Stage, \$5.50.

FRIDAY, Feb. 24

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 8:10 a.m., UC 533.
Psychology Colloquium - "The Linguistic and Psychological Traditions in the Study of Language Production and Speech Errors," Gary Dell, 3 p.m., MacKinnon 236.
Seminar - "People and Pets, Pets and Practice: Are We Going to the Dogs?" Bruce Fogle, 4 p.m., War Memorial Hall.
Continuing Education - "Win-Win Negotiating," 7 p.m., continues Feb. 25, register at Ext. 3956/7.
Humanities Association - "The Classical Experience at Centennial Collegiate," Patricia Bell, 8 p.m., MacKinnon 107, non-members \$5, students free.
Drama - *Arms and the Man*, 8 p.m., Inner Stage, \$5.50.

SATURDAY, Feb. 25

Dinner Theatre - Theatre in the Trees, *I Ought to Be in Pictures*, 6:30 p.m., Arboretum Centre, \$29.50.
Drama - *Arms and the Man*, 8 p.m., Inner Stage, \$5.50.
Concert - In Honor of President Brian Segal, 8 p.m., Macdonald Stewart Art Centre, \$10, tickets at Ext. 3127.

SUNDAY, Feb. 26

Worship - Morning Worship Service, University Bible Studies, 9 a.m., UC 441; Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry, 8 p.m., UC 533.
The Arboretum - Sunday Afternoon Walk, "Animal Tracks and Tracking," 2 p.m., Nature Centre.

MONDAY, Feb. 27

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 5:10 p.m., UC 533.

TUESDAY, Feb. 28

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 12:10 p.m., UC 533; Inquiry into Catholicism, 4 p.m., UC 334; Faithfully Curious, 5 p.m., UC 335.
Information Technology Seminar - "WordPerfect 5.0 Advanced Features," 10 a.m. to noon, Computing Services 204, register at Ext. 6568.
Science Noon - "How Science Has Changed Agriculture," Clay Switzer, noon, Peter Clark Hall.
Our World - "This is Apartheid," 12:10 p.m., UC 441.
Physics Seminar - "Educational Outreach at Fermi Lab," Drosko Javonovic, 4 p.m., MacNaughton 113.

WEDNESDAY, March 1

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Feminist and Christian, 10:10 a.m., UC 533; Ecumenical Holy Communion, 12:10 p.m., UC 533; Community Fellowship, 5 to 7 p.m., Chaplain's Lounge, UC Level 3; Immanuel Christian Fellowship, 5 to 7 p.m., 287 Water St.
Drama Seminar - "Informal Discussion of Approaches to Actor Training," Edward Argent, 9:30 a.m., Massey Hall 203.
Our Common Future - "Sustainable Development and Agriculture: Economics and Ethics," Vernon Thomas, Carole Giangrande and Glenn Fox, noon, UC 103; "Sustainable Development: Implications for Canada," John Jackson, Jim Bradley and Jeanine Ferretti, 7:30 p.m., The Arboretum.
Computing Seminar - "Desktop Publishing II - Apple/Mac Solutions," 12:05 p.m., Computing Services 204.
OVC Seminar - "Strategies for Enriching the Environment of Laboratory Rhesus Monkeys," Viktor Reinhardt, 12:10 p.m., Clinical Studies 1438 (508).

At your service

Editor's note: This is the second in a series of articles to help you understand the workings of Physical Resources and how to receive the best possible service from its departments, which are responsible for central utilities, construction, engineering, grounds, housekeeping and security on campus.

Construction

As needs change at the University, facilities have to be changed to accommodate them. Renovations can be arranged by sending a work request to the Construction Department.

An individual who needs renovations costing less than \$2,000 should have the departmental administrative assistant send a work request to Construction, specifying the source of funds for the work. If requested, Construction personnel will do an estimate at no charge. They can go straight ahead with the job if an estimate is not required.

For work expected to cost more than \$2,000, a project authorization form is prepared and requires approval of both the requesting department and the vice-president, administration.

Simple jobs, such as installing shelves, are sent straight to the appropriate Maintenance trade shop. More complicated tasks are assigned to a construction co-ordinator or sent to Engineering for design work. Most of the work is carried out by campus personnel, with the rest being sent out to local contractors. All work, whether in-house or contracted, is administered by Construction.

Most small jobs can be completed in a few days, but if there is a backlog, it may take up to three weeks to have the job completed, says department head Barney Jones. September, April and May are the busiest times of the year. In 1987, Construction oversaw 3,300 work requests, totalling \$803,000.

Projects (PR-1s)

The process for major renovations or projects, can be more complicated. It starts with the PR-1 form. Every September, the director of Physical Resources sends out the forms to the colleges. Deans prioritize their requests for the following

fiscal year and send them in by mid-October.

Requests can range from new roofs to new classroom or laboratory space. Unfortunately, all the projects requested can't be fulfilled, because their total cost surpasses the amount of money available, says John Flowerdew, Engineering head. For the fiscal year starting May 1, 1989, there are 203 requests totalling about \$3 million. But only a fraction of that amount will be available.

The PR-1 submissions go first to the director of Physical Resources, then to Engineering, where personnel make cost estimates and do the necessary design work. Engineering also uses a point-value system to prioritize the requests. Criteria such as energy consumption, the number of persons benefited and cost per station are used.

The final decision about which projects will be approved is made by three people - Academic Vice-President Jack Macdonald, Administrative Vice-President Charles Ferguson and Al Brown, director of Physical Resources. They make their decisions based on three factors - the project's cost, college priority and the point-value system.

The projects are approved in April, and most require completion before the following September, Flowerdew says. Engineering tenders them out to private contractors. When the tender process is complete, Construction administers the contracts. O

Visitor

Edward Argent, director of the school of drama at the Royal Scottish Academy of Music and Drama in Glasgow, will visit the Department of Drama March 1.

While here, Argent will lead a discussion of approaches to actor training at 9:30 a.m. in Room 203, Massey Hall. Everyone is welcome. In the afternoon, he will give a workshop on mask work, with participants limited to 20. For more information, call the Drama Department at Ext. 3147.

Argent's visit is sponsored by the British Council and the visiting professors' fund of the College of Arts. O



Architectural designers Wayne Aitken, left, and Bob Lorentz of the Engineering Department look over some renovation plans.

Photo by David Thomas, PRI

Personnel — Graduate news report

Appointments

Prof. Eric Reiche has been appointed chair of the Department of History for a five-year term that will begin Aug. 1.

Judith Strommer of the department of genetics at the University of Georgia will join the departments of Horticultural Science and Molecular Biology and Genetics as assistant professor this fall.

Glen Filson, adult education and community services, Bayer University, Nigeria, will join the Department of Rural Extension Studies as associate professor July 1.

Donna Reimer has changed employment from administrative assistant II in the Office of the Registrar to assistant counsellor in the BA counselling office, College of Arts.

Michael Burke of Guelph has joined the University as manager of the Alma Research Station.

Job opportunities

As of *At Guelph* deadline Feb. 10, 1989, the following opportunities were available:
Analyst/Programmer, OVC Computer Group. Normal hiring range: \$30,382 to \$35,699.

The following positions were available on-campus employees only:

Personnel Records Clerk, Personnel Department. Salary range: \$291.86 minimum; \$338.48 job rate (level 5); \$460.78 maximum.

Secretary II, Animal and Poultry Science. Salary range: \$320.11 minimum; \$369.95 job rate (level 5); \$460.78 maximum.

Secretary II, Family Studies. Salary range: \$320.11 minimum; \$369.95 job rate (level 5); \$460.78 maximum.

Fire Prevention Officer, Environmental Health and Safety Department. Probation rate: \$12.36 per hour; after three months: \$13.01 per hour; after one year: \$14.20 per hour.

Research Technician, Animal and Poultry Science. Salary range: \$437.28 minimum; \$505.69 job rate (level 5); \$626.99 maximum. ○

In touch

Over the past few weeks, liaison officers have been visiting secondary schools out of province.

In British Columbia, Marnie Souter visited eight schools on Vancouver Island and 11 in the city of Vancouver. More than 300 students came out for the presentations.

In Alberta, Sharon Popkey spoke with students in 10 secondary schools in Calgary and 10 in Edmonton. This is the first time U of G has visited schools on Vancouver Island or in Alberta. ○

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The final oral examination of Carlos Gomez, Animal and Poultry Science, a candidate for the doctor of philosophy degree, is Feb. 16 at 3 p.m. in Room 200, Graham Hall. The thesis is "Studies on Urea Transfer from Blood to the Digestive Tract of Sheep." Gomez's supervisor is Prof. Larry Milligan.

The final oral examination of Ji-rong Jiao, Horticultural Science, a candidate for the doctor of philosophy degree, is Feb. 22 at 9 a.m. in Room 124, Horticultural Science building. The thesis is "Predicting Greenhouse Rose Growth Response to Aerial Environment Based on CO₂ Exchange Studies." Jiao's supervisors are Profs. Jim Tsujita and Bernie Grodzinski.

Interested members of the University community are invited to attend.

Personals

For Sale: One-way air ticket to Edmonton via Wardair, leaving Feb. 23 at noon, Tajinder, Ext. 2307 or 836-2885. Large bags of kindling, maple off cuts, clean, dry, no bark, 658-4530. Bright red 1979 Toyota Corolla, two-door, four-speed, Michelin radials, AM/FM, 763-1236 evenings. Two framed paintings — "The Vigil" by Scott Woolover (Bald Eagle), 1983 limited edition, and "Woodcock" by Owen J. Gromme, limited edition 145/850, Ruthie, Ext. 4433 or 823-5411. Ski carrier (trunk), rollaway cot; inside wooden door, four TV tables; hibachi; electric Quick grill; new aluminum stock pot; car mats, 822-3129. Antique wardrobe, original bevelled mirror, early 1900s, Ext. 8909 or 836-6264 after 1 p.m. Riding hat, size 7 1/4, Ext. 2965 or 821-5502. Zenith VC 1800; Zenith portapak and camera; two snow tires, used one month, size 225-15; car heater, 822-7904. Wurliitzer piano, one year old, black finish, Mary, 836-7446. New WordPerfect 5.0 for legal sale to University employees or departments only, complete package, 3.5 disks (irrelevant to use), reduced price, Ext. 3882.

Wanted: Exercise bike in good condition; wing chair, any style, that needs reupholstering, Ext. 8909 or 836-6264 after 1 p.m. Used drafting or drawing table in good condition, Ext. 3369 or 824-3858. Two-bedroom house or apartment in June for working couple, up to \$500 a month plus utilities, Eunice, Ext. 2527 or 763-1280 evenings. House to rent in Florida for first two weeks in April, Ext. 2965 or 821-5502. Rottweiler puppies due this spring, ready to go in June or July, CKC registered, will have first shots; 35mm GMTEX camera, never used, Ext. 2199 or 836-6174.

Available: Experienced housesitter, non-smoker, abstainer, references, 846-0778. Kinderhaus preschool on College Avenue West has four spaces available March 1, including two spaces for infants, Mary-Jo, 823-5608. Word processing using

PhDs completed

The following students have successfully completed requirements for their PhD programs and will graduate at spring convocation:

- David Gareth Evans, Land Resource Science, whose thesis title is "The Involvement of Mycorrhizas in the Effect of Soil Disturbance upon P Absorption by Young Maize (*Zea Mays* L.) Plants";
- Alfonso Valdivieso-Garcia, Veterinary Microbiology and Immunology, "Interaction Between Mycoplasma Mycoides Subspecies Mycoides and Cultured Endothelial Cells"; and
- Lorna Woodrow, Horticultural Science, "Ethylene and Carbon Dioxide Exchange in Leaves and Whole Plants." ○

laser printer, Pat, 821-5502. Experienced secretary to do typing using WordPerfect, Brenda, 822-8342.

For Rent: Two-bedroom cottage at Sauble Beach, one block from beach, responsible people only, 837-3616. Recently finished two-bedroom basement apartment in family home close to University, available May 1, 836-6284. Townhouse, three to four bedrooms, 822-3129. Newly decorated room in quiet house, separate entrance, \$60 a week, 821-6061 after 5 p.m. Rooms in University area on weekly, monthly or semester basis, non-smokers only, 836-8137 evenings. Room for female, shared kitchen and bath, 10-minute walk from University, Ext. 3875 or 823-5608. New four- to five-bedroom house, two bathrooms, large yard, on bus route, parking for two to three cars, non-smokers, no pets, available May 1 or sooner, Ext. 2199 or 836-6174. 1982 Volkswagen Jetta; York 2001 home gym with pec deck; Bic 250 windsurfer with retractable dagger board; girl's figure skates, sizes 10 and 12; fireplace screen and equipment, 823-8548 after 5 p.m. Two-bedroom apartment in historic stone mansion, \$698 a month, 824-1773. New three-bedroom house on Steven Drive, garage, fridge and stove included, available March 1, no pets, 821-2846. Three-bedroom fully furnished faculty home in University area, available Sept. 1 to Aug. 1, 1990, Ext. 3973 or 821-3833. Spacious, new four-bedroom house close to University, furnished, available May 15 to Aug. 25, non-smokers, Ext. 3310 or 836-1454.

Found: A sum of money by the Laundry Department two weeks ago, call Madeline Warren at Ext. 2234 to identify and collect.

"Personals" is a free service offered by *At Guelph* for staff, faculty and students at the University. All items must be typed, double spaced, and submitted to *At Guelph* one week before publication. ○



Inside:

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Cover:

How do you get young women interested in the sciences? At U of G, the answer is "Girls in Physics Day," a program of lectures and hands-on sessions for high school girls from Halton Region. Some 45 girls from 15 schools attended the Feb. 14 program, which is now in its third year. At left, a student studies the properties of rotation. (See related story, page 4.)

Photo by David Thomas, PRI



CSS presents anniversary lecture series

The College of Social Science is celebrating the University's 25th anniversary with 10 public lectures next month. The series is open to the public free of charge.

Alexander Astin, director of the Higher Education Research Institute at the University of California, Los Angeles, will launch the series March 2 at 9:30 a.m. in Room 103 of the University Centre with a discussion of "Institutional Objectives in Higher Education: Is Harvard a Good University?" Astin will also speak March 3 — same time, same place — on "Defining and Measuring Educational Objectives: How Can Guelph's Programs be Improved?" Astin's visit is sponsored by the college.

The Department of Psychology is offering two lectures by Edward Deci of the University of Rochester. He will speak March 7 at 4 p.m. in Room 103 of the University Centre on "Motivation for Learning and Work" and March 9 at 4 p.m. in Room 442 of the University Centre on "Integration in Personality."

The Department of Geography will host Ron Abler of Pennsylvania State University. His

topic is "Telephony and Geography" March 8 at 4 p.m. in Room 116 of the MacKinnon Building.

The Department of Sociology and Anthropology is sponsoring two lectures by Liparit Kiuzadjan of the Soviet Union. Kiuzadjan will discuss "Current Changes in Soviet Society" March 8 and "Soviet Perspectives on China" March 15. Both lectures are at 8 p.m. in Room 113 of the MacNaughton building.

The Department of Economics will host Stephen Nickell of the University of Oxford March 15 at 4 p.m. in Room 029 of the MacKinnon building. He will speak on "Changes in Post-War Macroeconomics."

The Department of Political Studies is sponsoring two lectures by Eugenii Ambartsoumov of the Soviet Union. Ambartsoumov will speak March 22 on "The Meanings of Perestroika/Glasnost/Democratization in the Soviet Union" and March 28 on "The Future of Socialism in the Modern World."

Both lectures are at 4 p.m. in Room 101 of the MacNaughton building. ○



Interpretive biologist Alan Watson stands in an area of The Arboretum that has been

designated a "nature reserve" to protect its delicate habitats.

Photo by Mary Dickieson, PRI

Gold seal for dairy unit

OVC's Puslinch Research Station has been awarded a gold seal for milk quality.

Tests by the Ontario Ministry of Agriculture and Food's dairy inspection branch revealed that milk quality statistics from the research station's 30 cows ranked third best among Wellington County's 542 milk-producing herds in 1988.

A certificate recognizing the accomplishment was presented to station manager Bev Livingston and employees Jack Stevenson and Doug Harding at the Wellington County Milk Producers recent annual meeting in Arthur.

This is the fifth gold seal the unit has won since the program's inception in 1979, says Jim Mahone, director of University/OMAF programs. "Research projects introduce conditions that could hinder such achievements. That makes the award even more significant." Dean of Research Larry Milligan says the gold seal is a reflection of the "exemplary" work of the staff who manage and operate the dairy unit.

To be eligible for a gold seal, a herd's bacteria and somatic cell count must not exceed

levels established under the milk quality recognition program, a joint OMAF-Ontario Milk Marketing Board effort. As well, the milk must be free of excess water and "inhibitors" such as antibiotics, and the farm premises must meet Grade A standards established by the Milk Act of Ontario. Such criteria is accepted by the industry as being indicative of milk quality and a herd's cleanliness and health.

If award winners are a measuring stick, new inroads are being made into milk quality. Gordon Johnson, the branch's dairy producer specialist for Wellington County, presented 44 gold seals at this year's annual meeting — compared to just four in 1987 and two in 1986.

The figures reflect a trend across the province. More than seven per cent of all Ontario milk producers won gold seals in 1988, a sharp jump from less than two per cent the year before.

"Quality is more of an issue with the public than it was in the past," says Johnson. "It's made producers more conscious of consumers' demand for a pure product." ○

50-hectare area designated nature reserve at Arboretum

by Mary Dickieson

A grove of hemlocks, a willow swamp and an uncultivated open field are the most noticeable physical features of a 50-hectare area of the University that has been designated as a nature reserve. Located in the south end of The Arboretum, the area is the only place on campus where the American woodcock, sora rail, Virginia rail and grasshopper sparrow are known to nest.

The "nature reserve" designation means that the area will be left in its natural state, protecting these delicate habitats, says Alan Watson, interpretive biologist and education co-ordinator at The Arboretum.

"The nature reserve adds significantly to the diversity of the uncultivated areas of The Arboretum," he says. "And the designation furthers The Arboretum's efforts to promote wetland conservation."

A wooded area located in the southeast corner of the nature reserve (along Victoria Road) dates back to the early 1800s before the settlement of the Guelph area. The beech and hemlock trees growing there provide cover for red-tailed hawks, porcupines and great horned owls. White-tailed deer often winter there, and the area has the only stand of oak fern in The Arboretum.

A lower wetland area is a good place to view cattails and willow trees. The nature reserve also includes oldfields — cleared fields that are no longer cultivated — and an upland woods that contains The Arboretum's largest tree, a sugar maple.

The diversity of the habitats increases the environmental value of the area, says Watson. It is used extensively by faculty and students for

biology field trips, vegetation studies and other laboratory activities.

Current research projects that are using The Arboretum include an evaluation of habitat assessment procedures, butterfly phenology, a meadow vole parasite study and the Ontario forest bird monitoring program. The preservation of the area as a nature reserve will increase both its research and environmental value, he says.

The identified nature reserve will be off-limits to construction, landscaping or plantings, but a system of marked trails will be open to visitors.

The nature reserve is only a stone's throw away from a new subdivision between Victoria Road and Gordon Street and will be next door to the university's proposed retirement community complex. It will undoubtedly attract people from both of these residential areas, says Watson.

"It would be impossible to totally restrict public access to the nature reserve, nor should we. Nature interpretation and environmental education are important functions of The Arboretum."

He says controlled access through a future system of marked trails is the best way to preserve the area in its natural state. Trails make it easier for people who want to walk through the area, while steering them away from sensitive flora like the oak fern.

The Arboretum has 10,000 visitors a year, and most of them are more than willing to respect the natural environment by using the marked nature trails, says Watson. He is confident that a well-planned system of trails will also protect The Arboretum's designated nature reserve. ○



OMAF dairy producer specialist Gordon Johnson recently presented a gold seal for milk quality to the staff of OVC's Puslinch

Research Station. Left to right: Doug Harding, Johnson, station manager Bev Livingston and Jack Stevenson.

Photo by Owen Roberts, Office of Research

McLean lecturer to address future of agricultural land

How crucial is it for the United States and Canada to preserve existing agricultural land? How will this available resource be affected by impending climate changes? These and other questions regarding the economic future of North American agriculture will be addressed by U.S. economist and environmentalist Pierre Crosson during a public lecture on campus March 6.

Crosson will deliver the 1989 McLean Memorial Lecture, entitled "The Long-Term Adequacy of Agricultural Land: A Different Perspective." Sponsored by Canada Packers, the annual lecture series is organized by the Department of Agricultural Economics and Business. Farmers, agribusiness personnel and members of the general public are invited to attend the 8 p.m. lecture in Room 102 of the J.D. MacLachlan building.

Crosson is a senior member of Resources for

the Future, a U.S. research "think tank" located in Washington, D.C. The organization promotes research and study of issues in resource management and the environment.

He was formerly chief economist for the U.S. National Planning Association, associate director of economic research for the Bank of America and economist for several branches of the U.S. government.

Crosson's background offers a unique perspective on the implications of climate change and the availability of agricultural land.

His current research concerns resource and environmental issues in the management of agricultural land and the socioeconomic effects of climate change on renewable resources. While at the University, Crosson will also present a seminar for faculty and graduate students on an economist's view of climate change. ○



PEACE AND SECURITY

"Canada, the Arctic and International Peace and Security," a conference sponsored by the Guelph-Wellington chapter of Canadian Physicians for the Prevention of Nuclear War, was held on campus last week. The focus was on political, development and environmental issues in the

north. Participants included, from left to right, Prof. Vernon Thomas, Zoology; retired U.S. rear admiral Eugene Carroll; Yuri and Nina Pavlenko, Soviet Embassy, Ottawa; and conference organizer Dr. Ed Crispin.

Photo by David Thomas, PRI

American Forage and Grassland conference here

Farmers, crop specialists, conservationists and agricultural researchers will meet on campus May 22 to 25 for the annual conference of the American Forage and Grassland Council (AFGC). This will be the first time this North American conference has been held in Canada.

Hosted by the University, the Ontario Soil and Crop Improvement Association (OSCIA) and the Ontario Ministry of Agriculture and Food, the conference will focus on the importance of forages in modern agriculture. Participants will tour livestock operations in the Guelph area, hear presentations on the importance of forage protein in livestock nutrition, learn how to make hay in a day, and witness a debate on the management of alfalfa for winter survival.

The conference program also includes a presentation on economical pasture management and a number of papers concerning forage crop management, storage and use. Producers who attend will learn how to improve forage profitability, how to manage range and native grasslands and how to benefit from new forage breeding and genetics programs.

At the four-day conference, invited presentations will be given by scientists from U of G, the University of Minnesota and New York state. Papers volunteered by professional agriculturalists for presentation at the conference have come from Ontario, Manitoba, Quebec and 23 U.S. states.

The 1989 AFGC conference offers farmers and agricultural industry personnel the chance to get in touch with the cutting edge of forage-based agriculture in North America, says Prof.

Ann Clark, Crop Science, a member of the planning committee. Anyone interested in attending the conference can call her at Ext. 2508. ○

B of G tours College of Arts

The Board of Governors will tour the College of Arts before meeting Feb. 23.

The board is to deal with a report from the membership committee on the election of two students to the board and is expected to discuss proposed changes to the board's committee structure. It will also act on a report from the finance committee on commercial space in the University Centre.

Also expected on the agenda are reports from the planning and property committee dealing with tenders for the environmental biology and horticultural science building and the child-care centre. A brief to the architect on athletics renovations and a site report for family housing units are also slated for this meeting.

Motions for changes to the *Special Plan Agreement* and *Faculty Policies* are also on the agenda, and the board is to receive for information a report on parking rates.

B of G will tour the College of Arts from 4 to 5 p.m., followed by the meeting in Room 424 of the University Centre. Visitors wishing to attend the meeting are asked to call Dale Lockie at Ext. 8752 to obtain a visitor's card. ○

Graduate news

The Ontario Council on Graduate Studies has released the periodic appraisals decisions on several more U of G graduate programs.

The following programs were placed in category "A": MA in political studies; MA in psychology; M.Sc. and PhD in environmental biology; and M.Sc. and PhD in zoology.

The M.Agr. program in the Department of Environmental Biology in the fields of apicul-

ture and pest management was placed in category "B".

Although the program was classified as being of good quality, the appraisals committee was concerned that few students have registered in the department's M.Agr. fields. The department is to report to OCGS by Jan. 1, 1991, on student enrolments and completions. ○

Animal health and plant protection in Caribbean project launched

by Martha Leibbrandt,
OVC Communications Co-ordinator

U of G has joined forces with the Inter-American Institute for Co-operation on Agriculture (IICA), the Canadian International Development Agency (CIDA) and Agriculture Canada to help promote economic growth in the Caribbean.

Guelph's role is to help develop a multinational plant and animal health information/surveillance service among Caribbean IICA member states, to reduce economic losses caused by pests and diseases to food animals and plants.

The four-year project is co-ordinated by Prof. David Waltner-Toews, Population Medicine.

IICA is an intergovernment agency of 31 member states in North, Central and South America and the Caribbean. In August 1987, CIDA committed \$4.5 million to support IICA in its agricultural programs, and Agriculture Canada was named Canadian executing agency.

Guelph's involvement is specifically with Project 4 of the five-part program, which is called "Modernization of Agriculture in Latin America and the Caribbean." IICA hopes to set up a network involving 11 countries — Trinidad and Tobago, Jamaica, Barbados, St. Lucia, Haiti, Guyana, Surinam, Antigua and Barbuda, Dominica, Grenada and St. Vincent and the Grenadines.

Dr. Theresa Bernardo, a veterinary epidemiologist on contract with OVC, is based in Trinidad as the college's on-site implementer for the first phase of the project.

Other principal players are Dr. Harry Mussman, IICA's director of Project 5; Emami Fiori, IICA's Ottawa representative; Dr. Brian Perkins of Agriculture Canada; and Dr. Barry Stenstrom, IICA's co-ordinator in the Caribbean.

One of the major goals of Project 4 is to

design and set up a computer-based disease-monitoring system called the Caribbean Animal and Plant Health Information Network (CAPHIN). Using existing software packages that will be adapted or modified and hardware that can be bought and serviced locally, the project team hopes to set up a system that will list and monitor pests and diseases that affect agricultural production throughout the Caribbean.

Bernardo and Stenstrom are currently going country to country talking to people who will gather the data and trying to clarify what each country's disease and production priorities are.

All 11 countries will eventually have their own database, with information from each country being forwarded to the core database in Trinidad. Communication among the countries will be enhanced through a regular newsletter and possibly some form of electronic service.

Because the object of the project is to train people to solve their own disease production problems, the team members will not gather the bulk of the data themselves, says Waltner-Toews. Instead, they will be teaching basic epidemiological skills to Caribbean participants, working with them to design and implement studies. To give them an idea of what is required to solve problems, the team will initiate at least one plant and animal model on the fledgling CAPHIN system.

Waltner-Toews believes people "learn by doing" and he intends to involve the Caribbean participants in specific projects as well as short courses. If CAPHIN is to be successful, he says, "each country has to have a commitment to act on the information gathered."

In future, some Caribbeans may benefit from more advanced training, perhaps coming to Guelph to take the University's graduate diploma in international veterinary medical development. ○

At Guelph

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Forum

Get facts right, Sulawesi specialist urges

It is possible that Prof. John McMurtry, in his recent piece in *At Guelph* Jan. 25, is expressing a partially valid point concerning the composition and therefore the effectiveness of the new Standing Committee on International Activities, although this is certainly debatable.

Doubtless, the University administration will wish to respond to this and a variety of other academic and administration-related issues, including the question of whether University "outreach" activities are to be considered—and evaluated according to the same procedures as—"academic" or "scholarly" activities.

Unfortunately, within McMurtry's article, as well as in his previous contributions on the subject, there are a large number of other issues that are either wrong, misleading or at the very least, open to very different interpretations from those that he makes. I would like to address two of these major issues—the question of the "morality" or acceptability of pursuing development activities in "autocratic" countries, and McMurtry's continuing failure to understand the nature of the Sulawesi project, the Indonesian polity and international development activity in general.

Based on more than a decade of work in Indonesia (largely in Sulawesi), Malaysia and Peru, and studying the issue for a longer period, I contend that few so-called autocratic or repressive Third World countries are so monolithically and tightly structured that they do not contain within them distinct and often competing groups with power and influence. Even the "repressed" rural and urban masses themselves are not without considerable ability to resist measures they do not support and to obtain various types of assistance they desire.

Specifically with regard to Indonesia, I take strong exception to McMurtry's use of the phrases "military regime," "military dictatorship" and "military government" as an adequate characterization of the country.

Yes, the military has considerable power in

the country, including a formally defined role both in the partially elected and not completely toothless parliament and within the bureaucracy. But no, the military (divided as it is along generational and service lines, and containing within it various styles of political thought, including a populist, development-oriented style) is not by any means the sole wielder of power, authority and influence in the country. Other groups include the civilian base of the bureaucracy, religious groups, non-government organizations (NGOs) and the commercial sector.

Government ministries conflict and compete with each other, too, as in western countries.

For example, the directorate-general of regional development, to which the Sulawesi project is most closely linked, is considerably more active in promotion decentralization of development decision making than some of the technical agencies have been.

It is simply outrageous, therefore, to state that "the military authorities control the Sulawesi Regional Development Project." Virtually the only direct or indirect contact the project has had with the "military authorities" has been with two district officers seconded from the army. These two individuals could hardly have been more understanding and supportive of the project's rural development goals and activities and NGO involvement in their areas.

Indeed, to think of any particular centre of power or authority in a huge, complex and bureaucratically convoluted nation such as Indonesia as being in "control" of an enterprise like the Sulawesi project, which involves five levels of government and scores of government and non-government agencies, simply defies logic, not to mention reality.

It is quite possible and quite common to find within the bureaucracy, as well as without, individuals and groups who are sincerely and actively engaged in furthering people-oriented and locally designed development activities.

The rhetoric and the systems for "bottom-up" planning are indeed well-established in Indonesia. What is often lacking is not the will or the orientation to put these into practice, but imagination, techniques and resources. Think, for example, of the practical problems of institutionalizing participatory planning among members of a cultural group that has no tradition of open discussion and debate on such matters.

It is one of the main roles and strengths of a project like Sulawesi to locate and take advantage of the many opportunities that exist to promote and support such individuals, groups and institutions, whether governmental or otherwise. The Sulawesi project works with both government and non-government organizations, including Oxfam, and has been instrumental in introducing NGOs to some of the more outlying areas where the project is active. They have generally been well-received by the local people and government, who commonly note the superior results of their community development activity.

Seen this way, the question of whether U of G staff or hired advisers have contributed to the design of project approaches and activities, or whether they are only acting "in execution" of an "already established program conforming to the plans of the Indonesian government," is resolved.

Yes, a widely praised broad framework and an institutional base do exist, and this can only be counted as a blessing. But like much else in Indonesia, including the official government philosophy, *Pancasila*, these are of such a general nature that an incredible range of activity can be promoted within them. The systems can be modified, be made more responsive, be supplemented by the development of NGOs and, yes, they can be criticized, although not necessarily in an adversarial, confrontational, public manner. It is such endeavors as these that the Sulawesi project is involved in.

McMurtry should make no mistake about the influence of the Sulawesi project on "aiding and abetting," much less "strengthening," the Indonesia "regime." The project is minuscule in comparison with the size of the whole private- and public-sector development effort in Indonesia. (Although in the middle and long term, one hopes that its influence on promoting increased understanding of, and ability to implement, decentralization and local-level decision making will be significant. If it isn't, then the project has failed.)

We must be careful with our use of words. "Strengthening," in the context of organizational behavior (from which the use of this term in international development derives), has little to do with increasing an organization's power to control and everything to do with increasing its capacities to, in this case, promote decentralized and participatory development planning and implementation. In fact, a more appropriate term is "institutional development." This includes such activities as improving the capacity to understand local situations, aspirations and needs and to translate them into fundable projects. This is not only possible but feasible and is being achieved. But the process is slow and not evaluated with ease, although it certainly can be evaluated.

It is simply pathetic to think that the limited activities of the Sulawesi project are actually materially increasing the power of a "military government" to "control and oppress the Indonesian people in outlying areas where it seeks to extend its authority and rule."

If that is indeed an agenda of the Indonesian government, it has the wherewithal to attempt this on its own. It certainly doesn't need the few land-use and land-capability maps made with Sulawesi project assistance for better agricultural planning (and based on Indonesian government data) to control and rule the country. These would be useless for the purpose in any case.

"Communications technology"? Has the linking of two Guelph advisers' offices by CoSy made that much of an impact on a country of 170 million people that has its own communications satellite, allowing it rapid direct-dial telephone connections between all major towns and cities, not to mention a variety of other communication systems? Or is McMurtry referring to Guelph's attempts to institute improved quarterly project reporting systems that pay attention to project impact instead of merely financial disbursement and physical progress? That is the only other bit of "communications technology" I can recall the project having attempted to introduce.

"Database development"? I would certainly appreciate an explanation of how it is possible to even contemplate development activity of any kind without a limited quantity of facts and figures on what resources and potentials currently exist as a basis for planning improvements, including equitable distribution of benefits.

I am not an apologist for the Indonesian government, just as I would not want to have to defend various policies and actions of different governments in Canada, now and in the past. This should not prevent me from engaging in practical politics and development work in Canada. It also does not prevent me from promoting what I consider to be morally acceptable, if slow, plodding and long-term, development activity in Indonesia.

In fact, it encourages me and a host of other concerned individuals, governments and NGOs, including CARE Canada, the Foster Parents Plan, Oxfam, various environmental groups and church organizations, not to mention at least eight Canadian universities—Guelph, York, Waterloo, Manitoba, Simon Fraser, Dalhousie, McGill, New Brunswick—and a number of community colleges, all of which work to a greater or lesser degree with agencies of the Indonesian government.

Yes, it would be an excellent thing to have "genuinely external" and "impartial" evaluations of outreach or development activities. From having been on both the receiving and the giving ends of CIDA-funded evaluations, however, I can assure you that evaluators contracted by CIDA are beholden to no one. I believe this to be the case with the two major evaluations of the Sulawesi project to date.

If one believes, however, that such is not the case, then I would suggest it is better not to give the impression that one's mind is already firmly made up on the various issues referred to above.

McMurtry seems to have difficulty with both "facts" and their "interpretation." I think we would all be well-served if McMurtry could spend some considerable time in the field getting a feel for the real "texture" of Guelph's considerable outreach activities, in Canada as well as abroad, to understand that things are neither so simple nor so fraught with evil as they may at first sight seem.

Tim Babcock,
Associate Graduate Faculty,
University School of Rural Planning and
Development.

Education watch

Right to express theory defended

The University of Western Ontario may not agree with the controversial views of one of its faculty, but it defends his right to express them. Western's president, George Pederson, is quoted in *Western News* as saying there is no relationship between psychology professor Philippe Rushton's conclusions in his paper "Evolutionary Biology and Heritable Traits With Reference to Oriental-White-Black Differences" and any position the university may take on the issue. As a researcher and scholar, Rushton does not represent the views of the university, says Pederson, but "I, along with the university, will argue very hard for Rushton's right to carry on his research activities." Rushton's paper says that because orientals are the race that has evolved most recently, they have the highest average intelligence, and are the most sexually and socially restrained. Whites are next in the hierarchy, says Rushton, and blacks are third.

Scarborough College gets cultural centre

Approval has been given for the construction of a cultural centre on the Scarborough College campus of the University of Toronto. Estimated to cost about \$4 million, the centre will have a 250-seat theatre, equipped for full-screen and video projection. In addition to dressing rooms, green room, prop/costume storage and workshop facilities, the centre will house a combination rehearsal hall and drama studio, an art gallery and a music room. It will also have access to dining facilities. The centre will accommodate events for both Scarborough College and the community—recitals, film and video showings, dramatic productions, classes and workshops, public lectures, conferences, and academic and cultural club activities. Funding will come primarily from U of T's five-year, \$100-million fund-raising campaign. (The *University Report*, COU)

Dramatic drop in Quebec's university enrolment predicted

The number of full-time students enrolled at Quebec universities will drop by 16 per cent by the year 2007, according to a study by two population specialists at the Quebec Ministry of Advanced Education and Science. The three English-language universities, McGill, Concordia and Bishop's, will register the largest decrease—24 per cent. Meanwhile, the full-time student population at French-language institutions will drop by 12 per cent. The overall number of full-time students should decrease from 148,808 in 1987 to 125,615 in 2007. Although the rate of participation in university education will remain high, it will not compensate for the 26-per-cent drop in the number of 20- to 29-year-olds over the next 20 years. This age group accounts for 70 per cent of all full-time students. A copy of the study *Les prévisions de l'effectif étudiant universitaire pour investissements: méthodologie générale et prévisions 1987-1988 à 2007-2008* can be obtained by calling 418-643-7923. The authors, Andre Lesperance and Jacques La Haye, can also be reached at that number.

Donner Foundation funds public policy project

The Canadian Donner Foundation has awarded \$400,000 to Queen's University's School of Policy Studies for a three-year project to study issues in Canadian-American public policy. Some 50 scholars will participate. Researchers will examine issues in security and defence, health, trade unionism and labor relations, legal institutions and other social and economic areas. The project will build the foundation for a permanent research group at Queen's.

Letters to the editor

Sarcasm intended in science student's letter

In his letter of Feb. 1, Don Jose expressed disbelief that a science student would not support funding for basic research unless it could show profit potential. His feeling is understandable, because it is beyond belief that a university student could feel this way.

This being the case, I believed that my letter of Jan. 18 required no warning to the uninformed reader that sarcasm was contained within. My letter was not intended to indicate support for Prof. John Simpson's view that milk research is non-profitable and should not be funded by the University. My aim was to shower false praise on Simpson in an effort to expose his narrow-minded view.

Aside from his poor understanding of how quota is distributed in this province, does Simpson not realize that improved milk yield per cow would be of tremendous value to farmers in underdeveloped countries?

I found it unacceptable that a professor could even question the value of research, and I believed that a sarcastic letter from a science student would best demonstrate this.

I am well aware of the financial crisis facing our universities. I have marched at Queen's Park and have written to the minister of education to voice my concerns.

David Read, CPS '89

Women in science and engineering

The status of women committee of the Council of Ontario Universities (COU) recently published a report with recommendations on attracting and retaining women in the sciences and engineering. A summary is reprinted here. The complete report, with more examples of the steps that can be taken to promote women's participation in non-traditional studies and occupations, is available from COU on request.

Males still dominate

In 1985, 53 per cent of graduates from Ontario universities with bachelor's and first professional degrees were women. But most of these women were clustered in the traditional female fields of the humanities, education and social sciences. At the same time, the number of males enrolled in the traditional female fields declined.

These gender imbalances are not only important to the universities of Ontario, but also to society as a whole, because they indicate that we may not be making the best use of our young talent.

The number of women entering science and engineering programs has increased only marginally in recent years. Although the percentage of women receiving undergraduate law degrees increased from seven per cent to 45 per cent between 1970 and 1985, women received only 10 per cent of engineering degrees in 1986, up from one per cent in 1970.

Few role models available

Studies have found that there are a number of reasons for the dearth of women in scientific fields. First, young women tend to avoid mathematics-based subjects. And those who are interested in math have few role models of female teachers or experts to whom they can look for inspiration or validation. Male teachers often have few expectations that their female students will excel.

The textbooks and other materials used in science and mathematics classrooms are almost exclusively written by men and use male-oriented terminology and examples that mirror male, not female, experiences.

Finally, young women tend to become discouraged when they see what appears to be discriminatory practices in scientific institutions.

Strategies

Elementary and secondary schools are exploring a variety of initiatives to counter these problems. Universities can also play a vital role in encouraging students to consider the widest possible range of academic and employment options.

The committee on the status of women identified a number of strategies in a recent report for COU. Many of the measures recommended use of existing systems, making them relatively easy and inexpensive to implement. Others are more ambitious, requiring substantial commitments of money and personnel.

The committee believes strongly that one of the most important means of increasing women's representation in non-traditional studies is to present these fields as feasible, rewarding and receptive. Target audiences include high school students identifying their career options and selecting courses, graduates entering their first year of university and adults contemplating a return to formal education.

High schools and universities can implement a wide range of pre-university experiences, special programs and recruitment strategies to promote women's interest in male-dominated disciplines. These include career days, workshops and conferences for students in junior high school, and on-campus math and science career programs during the summer.

Female students enrolled in university science and engineering programs can play a major role. They can visit high schools and be part of on-campus information and academic "sampler" sessions for prospective registrants. Universities can sponsor career exploration courses and arrange for female faculty, staff and alumni to speak to prospective students. Parents, guidance counsellors and teachers could also be invited to these sessions.

The committee urged that universities develop special promotional materials such as handbooks, brochures, fact sheets, posters, videos and slide shows. Regular recruitment literature and campus publications should use both male and female pronouns and nouns and

include pictures of both men and women.

Universities should also explore new places to distribute these materials, such as kiosks in shopping centres, educational fairs and mailings to groups that might promote female participation and professional associations committed to increasing women's vocational options. Science talent searches designed to identify promising young people and stimulate their interest should be mounted.

Addressing the needs of the underemployed

Access means that all students who are capable and interested can attend university. The committee believed access could be improved in at least two ways. First, by consciously and purposefully expanding transition programs to help those whose backgrounds may not have all the required components.



Prof. Mary Beverley-Burton, Zoology, right, meets with Janine Cairra of the University of Connecticut at Storres during Cairra's recent campus visit to give a talk on "The Morphology and Evolution of Selected Elasmobranch Tapeworms" as part of the Systematics Seminar Series. Beverley-Burton describes Cairra as a role model for young women who are considering a career in the sciences. Originally from Montreal, Cairra came to U of G for the honors zoology program in 1976, then

they ban sexual harassment in all forms and set up procedures for dealing with complaints.

Other recommendations included putting questions on course evaluations that examine whether professors welcome and support female students.

The committee also urged administrators to implement programs that openly discuss the issues of subtle bias against women and encourage the adoption of pedagogical practices that are consistent with their institution's equity objectives. Lecturers and administrators should use both "he" and "she" pronouns in all classrooms and written communications, and examples cited should feature both male and female students.

Buddy systems

The committee believed strongly that universities had to improve efforts not only to

tional information contain accurate, up-to-date materials on women in math, physical sciences, engineering, technology and other male-dominated fields.

Universities could organize professional skills development workshops on topics such as job search strategies, leadership training, conflict management, negotiation skills, self-assertion and how to balance careers and families.

The committee also recommended that students have easy access to information on the professional associations and networks, advocacy groups and campus bodies committed to promoting the development of women in traditionally male-dominated fields. Female students should be encouraged to participate in such organizations.

The committee recognized the value of summer and part-time employment related to fields of study, particularly on-campus work and research experiences. The Ontario Work Study Program, for example, provides opportunities for campus employment during the academic year.

The committee urged universities to foster employment opportunities by ensuring that female students receive information about co-operative programs, internships, career fairs, on-campus recruitment and employers sympathetic to women's concerns.

The committee also developed a set of proposals for heightening the visibility of women already working in science and engineering fields. Similarly, it stressed that there are many ways at universities to increase the visibility of female students in these fields.

Gender bias in the curriculum

The body of knowledge taught and how it is taught determine women's educational experience and strongly influence whether they decide to pursue non-traditional studies. Frequently, the university structure and curriculum portray a male monopoly of scholarly, scientific and cultural life.

Although the number of women's studies programs has increased recently, traditional curriculum has been slow to embrace scholarship on and by women, especially in scientific disciplines. This exclusion conveys the message that the contributions of women are inconsequential and irrelevant.

The committee recommended that each institution carefully examine the extent to which academic concerns relevant to women are given a minor role. It suggested that each university take steps to ensure that its curriculum reflects the latest scholarship.

For instance, universities could include in science degree programs some courses about social and ethical issues in scientific research, and the history of women in science. Science programs could include humanities courses and vice versa.

Faculties of education could put equity issues in their programs, including non-sexist curriculum design, and stress the importance of encouraging women to enter math and science.

Tapping women's potential

The report set out initiatives that could help increase the participation of women in scientific and technical disciplines. Although some of these measures require initial financing, society will benefit from having more women complete degrees in these key fields.

Universities will also enlarge the pool of female faculty candidates in fields where serious personnel shortages are anticipated in the near future.

The committee noted that universities, governments and business all recognize the contribution of scientific and technical education and research to future economic growth. All three sectors are also aware that scientific activity can't flourish without highly qualified personnel. Ontario has barely begun to tap the potential of half its population — the women of this province — toward filling those personnel needs.

In unanimously endorsing the report of the committee, COU recognized the importance of increasing women's participation in science to both the universities' and the province's future development. Because this concerns all levels of education as well as government and employers, broad-based, high-level commitment and support are required to address this key human resource issue most effectively. O

transferred to the University of British Columbia after two years. She earned her PhD at the prestigious Harold W. Manter Parasitological Laboratory at the University of Nebraska. In 1983, she won the Ernst Mayer Award for the best student paper from the Society of Systematic Zoology. An assistant professor in Connecticut's department of ecology and evolutionary biology, Cairra teaches parasitology and evolution.

Photo by Herb Rauscher, Photographic Services

Second, by setting up re-entry programs for unemployed or underemployed women holding undergraduate scientific degrees.

In these programs, women could work toward advanced degrees in a setting that included support services such as career counselling and information, child care, and training in study skills and time management.

The committee also believed that academic policies and standards must be free of gender bias, so that women are not disadvantaged by routines and procedures drawn up with only men in mind. Some other suggestions included making engineering and science available to part-time and summer students, and exploring the possibility of distance education through the use of correspondence courses, audio and videotapes, teleconferencing and personal computers linked to the universities.

The committee also recommended that class timetables, for both regular session and summer courses, take into consideration the needs of students with children. Currently there is little financial assistance for female students in science and engineering.

The committee suggested targeted bursaries and grants whose availability would be widely publicized. The committee urged universities to find ways to ensure men do not get the lion's share of teaching and research assistantships and graduate fellowships.

Sexist climate on campus

The best recruiting efforts may fail if a "chilly campus climate" for women persists. Sexist attitudes and behaviors show up in blatant and subtle forms in the classroom, at orientation and in campus newspapers.

To provide a hospitable and supportive learning environment for all students, the committee suggested that university administrators distribute explicit policy statements in support of female students, faculty and staff, and that

attract women to science and engineering programs, but to keep them there, through encouragement, practical support and improved academic opportunities.

Many of its recommendations in this retention area do not involve large new expenditures and could readily be incorporated into existing services provided by faculties, departments and student affairs offices. Support groups, women's caucuses and networks, buddy systems and workshops could give encouragement and information, as well as the opportunity to share experiences and discuss career and educational issues and goals.

Academic supports might include peer tutoring services, subject-related clinics, computer training and study skills workshops. The committee stressed that academic support had to be backed up with practical support.

Students with children or outside jobs need affordable child care offered during class and library hours. They also need parent-locator services and provisions for parental and pregnancy leave. Professors and other lecturers were urged to be more flexible, not only in the scheduling of office hours when students can visit them, but also in the scheduling of academic tasks.

University administrations could develop career planning workshops, especially for those considering employment in a traditionally male-dominated field. First-year science courses could include career planning and occupational opportunities, plus lectures by women employed in scientific fields on contemporary problems and issues.

Female alumni in science and engineering are often willing to talk with undergraduates about their experiences and the opportunities available in their field.

Workshops stress job skills

The committee also suggested that career resource centres and other sources of occupa-

Coming events

WEDNESDAY, Feb. 22

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Feminist and Christian, 10:10 a.m., UC 533; Ecumenical Holy Communion, 12:10 p.m., UC 533; Immanuel Christian Fellowship, 5 to 7 p.m., 287 Water St.; Community Fellowship, 5 to 7 p.m., Chaplain's Lounge, UC Level 3

Molecular Biology and Genetics Seminar - "Expression of Nuclear Genes Encoding Mitochondrial Precursor Proteins," G. Shore, noon, Botany/Genetics/Zoology 028.

Computing Seminar - "Grammar Checking Programs," 12:05 p.m., Computing Services 204.

OVC Seminar - Poetry Reading, "Tante Tina's Lament: Mennonite Blues in the Land of the English," David Walmer-Toews, 12:10 p.m., Clinical Studies 1438 (508).

Biochemistry Seminar - "Secondary Changes in the Plasma Membrane of Multidrug-Resistant Tumor Cells," Doug Lee, 12:10 p.m., MacNaughton 222.

Art Lecture - Nora Hutcheson, 2 p.m., Macdonald Stewart Art Centre.

University Achievers - Zoo Manager Michael Hackenberger, 5 p.m., UC 103

Our Common Future - "Sustainable Development: Planning and Management Challenges," John Friedmann and Doug Hoffman, 7:30 p.m., Arboretum Centre.

Drama - *Arms and the Man*, 8 p.m., Inner Stage, \$5.50.

THURSDAY, Feb. 23

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Relationships: The Central Concern of Jesus, 4 p.m., UC 335; Exploration in Meditative Prayer, 5:10 p.m., UC 533; Social Evening, 6 to 9 p.m., UC 334/335; Lent and Holy Week Video Series - "The Milagro Beanfield War," 6:30 p.m., UC 533.

Pathology Seminar - "Pathological Changes Associated with Naturally Occurring Outbreaks of Bacterial Gill Disease in Salmonids," D. Speare, 11:10 a.m., Pathology 220.

CSRC Workshop - "Presenting a Seminar," noon, UC 318.

Concert - The Royer Trio, clarinet, cello and piano, 12:10 and 1:10 p.m., MacKinnon 107, free.

Board of Governors - Meeting, 5 p.m., Boardroom, UC Level 4.

Lecture - "Human Territoriality and the Struggle for Place," John Friedmann, 7:30 p.m., Arboretum Centre.

Drama - *Arms and the Man*, 8 p.m., Inner Stage, \$5.50.

FRIDAY, Feb. 24

Schedule of Dates - Last day for applications to graduate for spring convocation.

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 8:10 a.m., UC 533

Biomedical Sciences Seminar - "The Influence of Cytokines in the Successful Pregnancy," noon, OVC building 1642.

Art Lecture - "The Function of Art in the Post-Nuclear Age," Alan Gussow, 3 p.m., Landscape Architecture 204.

Psychology Colloquium - "The Linguistic and Psychological Traditions in the Study of Language Production and Speech Errors," Gary Dell, 3 p.m., MacKinnon 236.

OVC Seminar - "People and Pets, Pets and Practice: Are We Going to the Dogs?" Bruce Fogle, noon, War Memorial Hall.

Continuing Education - "Win-Win Negotiating," 7 p.m., continues Feb. 25, register at Ext. 39567.

Humanities Association - "The Classical Experience at Centennial Collegiate," Patricia Bell, 8 p.m., MacKinnon 107, non-members \$5, students free.

Drama - *Arms and the Man*, 8 p.m., Inner Stage, \$5.50.

SATURDAY, Feb. 25

Workshop - "Writing Print Materials Everyone Can Read," 10 a.m. to 4 p.m., UC 103, \$10, register at Ext. 6918.

Dinner Theatre - Theatre in the Trees, *I Ought to Be in Pictures*, 6:30 p.m., Arboretum Centre, \$29.50.

Drama - *Arms and the Man*, 8 p.m., Inner Stage, \$5.50.

Concert - In Honor of President Brian Segal, 8 p.m., Macdonald Stewart Art Centre, \$10, tickets at Ext. 3127.

SUNDAY, Feb. 26

Worship - Morning Worship Service, University Bible Studies, 9 a.m., UC 441; Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry, 8 p.m., UC 533.

The Arboretum - Sunday Afternoon Walk, "Animal Tracks and Tracking," 2 p.m., Nature Centre.

MONDAY, Feb. 27

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 5:10 p.m., UC 533.

TUESDAY, Feb. 28

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 12:10 p.m., UC 533.

Information Technology Seminar - "WordPerfect 5.0 Advanced Features," 10 a.m. to noon, Computing Services 204, register at Ext. 6568.

Science Noon - "How Science Has Changed Agriculture," Clay Switzer, noon, Peter Clark Hall.

Political Studies Seminar - "Civil and Political Rights in Canadian Foreign Policy: Recent Initiatives," Rhoda Howard, noon, MacKinnon 029.

Our World - "This is Apartheid," 12:10 p.m., UC 441.

Physics Seminar - "Kinetics of Pattern Formation," Martin Grant, 4 p.m., MacNaughton 113

Ecology Club Forum - "Sustainable Development," 7:30 p.m., Arboretum Centre.

WEDNESDAY, March 1

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Feminist and Christian, 10:10 a.m., UC 533; Ecumenical Holy Communion, 12:10 p.m., UC 533; Community Fellowship, 5 to 7 p.m., Chaplain's Lounge, UC Level 3; Immanuel Christian Fellowship, 5 to 7 p.m., 287 Water St.

Apiculture Club - Honey and Candle Sale, 9 a.m. to 5 p.m., UC courtyard.

Drama Seminar - "Informal Discussion of Approaches to Actor Training," Edward Argent, 9:30 a.m., Massey Hall 203.

Lecture - "The Creation of OAC," Gil Stelter, 10 a.m., War Memorial Hall, \$2.50.

Our Common Future - "Sustainable Development and Agriculture: Economics and Ethics," Vernon Thomas, Carole Giangrande and Glenn Fox, noon, UC 103; "Sustainable Development: Implications for Canada," John Jackson, Jeanine Ferretti and Carmen McClelland, 7:30 p.m., Arboretum Centre.

Dance - Northern Lights Dance Theatre, noon, UC courtyard.

Computing Seminar - "Desktop Publishing II - Apple/Mac Solutions," 12:05 p.m., Computing Services 204.

OVC Seminar - "Strategies for Enriching the Environment of Laboratory Rhesus Monkeys," Viktor Reinhardt, 12:10 p.m., Clinical Studies 1438.

THURSDAY, March 2

Schedule of Dates - Fortieth class day.

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Relationships: The Central Concern of Jesus, 4 p.m., UC 335; Exploration in Meditative Prayer, 5:10 p.m., UC 533; Social Evening, 6 to 9 p.m., UC 334/335.

Social Science Lecture - "Institutional Objectives in Higher Education: Is Harvard a Good University?" Alexander Astin, 9:30 a.m., UC 103.

Pathology Seminar - "Bacterial Gill Disease of Salmonids - A Description and Definition for the Disease in Ontario Hatcheries," V. Osland, 11:10 a.m., Pathology 220.

Concert - Allegri String Quartet, 12:10 and 1:10 p.m., MacKinnon 107, free.

Rural Extension Studies Seminar - "She Dwelt Among the Untrodden Ways," Pauline Greenhill, 2:30 p.m., MacKinnon 227.

Exhibition - Viewpoints Opening, 8 p.m., Macdonald Stewart Art Centre.

Remember when . . .

The fishing trip that decided Senate

by David Thomas

As former registrar Herb Petupiere remembers, there was so much to do when the University was young. But somehow things managed to come together.

As registrar first of OAC, then the federated colleges and finally the new University of Guelph, Petupiere was involved in making a lot of decisions that would affect the future course of the institution.

"The first thing we had to decide was what kind of Senate we were going to have," he says. "If you look at some universities, the University of Western Ontario, for instance, they have the warden of the county, mayors, councillors ... it's a huge, mammoth thing."

The decision to make this University's Senate more faculty-oriented was reached in an unconventional setting - on a fishing trip with the first president, J.D. MacLachlan. "We were standing on the side of the canal fishing, and we'd been discussing senates," Petupiere recalls. "At that point, halfway through the afternoon, he said: 'You know, I've decided that we're going to have a faculty senate. We're not going to have all these outsiders that other universities have.'"

Petupiere's many tasks included drafting provisional bylaws for the Senate, selecting hoods for different degrees and deciding on the size of diplomas.

"We had meeting after meeting on the size of the diploma because the veterinary students wanted a big diploma to put up in their office, but non-veterinary students normally don't hang it in their office. What we did was (have)

the same size diploma. We just put it on a larger size of paper, and that satisfied them. Everyone had the same diploma, only one had more paper than the other."

The biggest development that affected Petupiere and the Registrar's Office, though, was the implementation of the three-semester system. At the time, year-round operation was a concept that was quite foreign to most Canadian universities. And for it to work at U of G, the Registrar's Office would have to be able to handle the workload.

"Until we got into the semester system, the professors would have a month or five weeks to mark their papers and get the marks into the Registrar's Office. We agreed that we would do this turnaround in one week. The exams would be over on a Friday. If all the marks were in on a Monday, we would have all the results out by Friday, and we could have registration the next Monday."

The three-semester system and rapidly increasing enrolment meant a lot of work for the Registrar's Office, which also grew over the years, eventually encompassing Admissions, Records, Awards and Systems.

For Petupiere, who left the University in 1971 to take up his current position as head of the Ontario Universities Application Centre, the early years were enjoyable.

"It was an exciting time. We knew we were stretching ourselves, but we were young. And it was fun, because we were doing everything for the first time." O



WORTHWHILE CONNECTION

The Canadian Federation of University Women (CFUW), Guelph chapter, founded in 1945, offers membership to all female university graduates. In keeping with its goal to promote the higher education of women, the chapter presents an annual in-course scholarship to a female student in the B.Sc.(Eng.), BA or B.Sc. programs. This year's recipient is Catherine Samuels, a sixth-semester physics student. CFUW Guelph has about 190 members and welcomes new ones. To join, call Wendy Ayout-Wade at 822-3708. Meetings are held the fourth Tuesday of every month at 7:30 p.m. at the Optimist

Club. On Feb. 28, guest speaker will be Prof. Fred Dahms, Geography, who will discuss his book *In the Heart of the Country*. Pictured here is the current CFUW executive: Joyce Robinson, past-president; Anne Godfrey, president; Brenda Elliot, program convener; Carol Herrmann, vice-president; Patricia Adley, publicity; Rosemary France, corresponding secretary; and Terri Belyea, treasurer. Absent: Shirley Perrior, recording secretary; Ayout-Wade, membership secretary; and Ruth Hamer, social convener.

Photo by David Thomas, PRJ

Marriage and Family Therapy Centre

by David Thomas

There are two sides to the Marriage and Family Therapy Centre — and they complement each other in a way that's unique in this country.

For families, couples or individuals with relationship problems, it's a facility where they can get help. For graduate students studying marriage and family therapy, it's a classroom where they can get hands-on clinical experience.

The centre, under the auspices of the Department of Family Studies, offers the only master's program in marriage and family therapy in Canada, and is in the process of attaining accreditation from the American Association for Marriage and Family Therapy. In addition, a PhD program is under development within the department.

The faculty involved — Profs. Claude Guldner, Judy Myers Avis and Marshall Fine — believe the centre fills a gap.

There's a trend among social agencies to move towards systemic methodology, so they're looking for people with the kind of training the centre provides, says Guldner, the director. But it wasn't being provided in Canada until the centre opened in 1980.

It's important that there be a program in Canada so that students can study therapy in the Canadian social context, says Myers Avis. She, Fine and Guldner all did their doctorates in the United States.

About 40 people have graduated from the program and are now working for social agencies nationwide.

The M.Sc. program differs from a master's of social work in its emphasis on clinical training and its use of a systemic framework — examining all the relational factors that contribute to a client's problem, and treating the problem in that context.

The program has a substantial clinical component. Students conduct eight to 10 hours of therapy with clients each week, under close supervision. They also observe taped and live sessions through one-way mirrors. It is crucial for the students to witness the interaction between the therapist and client, Guldner says.

Clients don't usually feel ill-at-ease about being observed, says Fine. "It depends on how they're approached about it. If it's done skillfully, people don't see it as a threat." In fact, they're usually grateful for the presence of the observers, because they act as additional resources for the therapy process, he says.

"In the near future, we will experiment in the later stages of training by having the clients observing the team talk about the therapy. That will make the family feel more equal in the process."

When the students begin working directly with the clients, results can be quite impressive. Research shows that people who get therapy from students often progress faster, perhaps because students can empathize more with the clients, says Myers Avis.

The clients who come to the centre are often referred by physicians, schools or social workers, or they see one of the centre's advertisements. Treatment isn't covered by OHIP. Clients pay on a sliding scale, but those who can't pay are not turned away. Therapists treat a whole range of problems, from communication difficulties to incest.

Marriage and family therapy is more systemic than psychoanalysis. It's "looking at the complex interactions of family relations," says Guldner. So it's quite common for the therapists to bring in the whole family. They also emphasize what goes on within the family between sessions. This may involve family members developing new skills. "That is what really makes things change," Myers Avis says.

The centre's faculty are also developing new directions in research, teaching and treatment. Guldner, who received his BA, MEd and PhD from the University of Denver, has two main research areas. Men's roles in society are changing, especially in response to the changing roles of women, and he is interested in how men interact with each other and with women in light of these changing roles.

Guldner is also involved in sexual

therapy and is interested in treating sexual problems within the framework of marriage and family therapy.

- Myers Avis is interested in the feminist point of view of therapy. "Our culture has tended to blame women for family problems," she says, "and therapy theory

has mirrored that." She is developing gender-sensitive therapy and training techniques.

She is also trying to develop better ways to train therapists to deal more effectively with family abuse. An essential component of that, she says, is to have a framework for

preventing violence as well as treating it. Myers Avis studied at Queen's, Toronto and Purdue.

- Fine studies the family of origin — the perceptions and values people derive from the family and how those factors affect how they function as adults. "Large-scale research often overlooks what affects particular families — cultural factors, for example," says Fine, who studied at Waterloo, Wilfrid Laurier and East Texas State.

An important teaching issue for Fine is the sense of identity of the therapist. "I'm interested in the integration of myself into what I do," he says. The therapist has to have not only knowledge but skills and compassion. There is more to teaching than just conveying facts.

"Allowing myself to be myself hopefully allows the students to be and express themselves — as people and as therapists. They don't come out as replicas of the professors." ○



Profs. Claude Guldner, left, Judy Myers Avis and Marshall Fine counsel, teach and do research at the Marriage and Family Therapy Centre.



Some of the students and other faculty involved with the centre: seated, left to right, Prof. Jocelyn Seagram, Stephanie Rabenstein Gray, Lynda Rees and Anna Dienhart. Standing, Prof. Andor Tari, Sheila Hammond, Kathryn Mackay, Carolyn Woodard, Leslie Gillespie and Peter Gray.



Linda Zehr, left, and Elaine Starr keep the centre's office running smoothly.

Photo by David Thomas, PRI

Literary magazine moves base

Literary life on campus and in the local community has received a boost with the establishment of a Guelph base for Canada's largest and most respected literary magazine, *The Malahat Review* is edited by Prof. Constance Rooke, newly appointed chair of the Department of English Language and Literature, and will be highlighted next week during a campus subscription drive.

The Malahat Review is available in the library, but will be on display Feb. 27 and 28 in the University Centre courtyard. Subscriptions are \$15 a year for four issues, \$10 for students. The display will move to the MacKinnon building lobby March 1 and 2.

The publication can also be seen all week in the English Department on the fourth floor of the MacKinnon building.

Although published in British Columbia, *Malahat* is very much a national publication, says Rooke. "A base in Ontario can only strengthen the magazine. This is an area in which many of Canada's most interesting writers live and work, and the presence of that activity should be felt much more strongly than it is, both in the University and in the community."

Rooke has already planned a series of readings for this spring. P.K. Page, who received a National Magazine Award for poetry published in *Malahat*, will offer the first reading March 31 at the University. Linda Spalding, novelist and editor of another literary magazine, *Brick*, will read from her work and discuss the role of literary magazines in a presentation with Rooke April 9 at the Bookshelf Cafe in downtown Guelph. On May 14, also at the Bookshelf, poet Patricia Young will give a reading.

"I hope that students and faculty here will feel some sense of identification with *Malahat*," says Rooke. "This is a department that is well-known for its publishing activities. We have *World Literature Written in English*, *Canadian Children's Literature* and several other important scholarly journals. What we've needed, I think, is a creative venture."

Rooke welcomes the submission of original short fiction and poetry from members of the University community.

"*Malahat* is a literary magazine in which new writers can appear check-by-jowl with established writers like Margaret Atwood and Timothy Findley," she says. Competition is stiff for space in the prize-winning magazine, she says, but even those materials not chosen for publication are sometimes returned to the author with critical comments. "In this way, the magazine's editorial board offers some very valuable help to new writers," says Rooke. ○

Briefly

Our common future

The sustainable development seminar series continues tonight at 7:30 p.m. at The Arboretum with "Planning and Management Challenges," featuring John Friedmann, planning expert and professor at the Graduate School of Architecture and Urban Planning, University of California, and Doug Hoffman, environmental consultant with the Regional Authority on Planning Issues. There will be two sessions March 1. At noon in Room 103 of the University Centre, Prof. Vernon Thomas, Zoology, radio broadcaster Carole Giangrande and Prof. Glenn Fox, Agricultural Economics and Business, will discuss "Economics and Ethics." At 7:30 p.m. at The Arboretum, "Implications for Canada" will be examined by John Jackson, founder of the Citizen's Network on Waste Management; MPP Carmen McClelland, parliamentary assistant to Environment Minister Jim Bradley; and Jeanine Ferretti of Pollution Probe.

Switzer to speak

Clay Switzer, deputy minister of the Ontario Ministry of Agriculture and Food and former OAC dean, will discuss "How Science has Changed Agriculture" Feb. 28 at noon in Peter Clark Hall, as part of the 25th anniversary Science Noon series.

The teaching experience

Guelph high school teacher Patricia Bell and students will discuss "The Classical Experience at Centennial Collegiate" at the Feb. 24 meeting of the Guelph chapter of the Humanities Association of Canada. The lecture begins at 8 p.m. in Room 107, MacKinnon building. Cost is \$5 for non-members, free for members and students.

Computing seminars

Today's topic in Computing Services' lunch-time discussion series is "Grammar Checking Programs." It begins at 12:05 p.m. in Room 204, Computing Services. Next Wednesday, discussion will focus on "Desktop Publishing II — Apple/Mac Solutions." Computing Services is also offering a special seminar Feb. 23 focusing on one of the leading players in desktop publishing, Interleaf Canada. The seminar will look at Interleaf's TPS Version 4.0, which combines typeset-quality text, graphics, equations and scanned images to produce superior-quality documents. Participants will have a chance to discuss the capabilities of the system with an Interleaf education specialist. Three sessions have been scheduled — at 10:30 a.m., 12:15 p.m. and 2:15 p.m. — with attendance limited to 12 persons at each. Register at Ext. 6568.

Your number's up

"Numberworks," a show by Arnaud Maggs, opens March 4 at the Macdonald Stewart Art Centre. Maggs will be at the centre to discuss his work March 9 at 3 p.m.

OVC seminars

The OVC seminar series continues Feb. 22 with Prof. David Walner-Tocws, Population Medicine, reading selections of his poetry and March 1 with Dr. Viktor Reinhardt of the Regional Primate Research Centre in Wisconsin speaking on strategies for enriching the environment of laboratory rhesus monkeys. Both seminars begin at 12:10 p.m. in Room 1438, Clinical Studies building. On Feb. 24, Dr. Bruce Fogle of the Portman Veterinary Clinic, London, England, will speak on "People and Pets, Pets and Practice: Are We Going to the Dogs?" at noon in War Memorial Hall.

Concert to honor Segal

The Department of Music will hold a concert to honor President Brian Segal and the University's 25th anniversary Feb. 25 at 8 p.m. at the Macdonald Stewart Art Centre. A few tickets are available from Patricia Law at Ext. 3988. Tickets are \$10 general, \$8 for students and seniors.

CSRC offers self-help workshops

The Counselling and Student Resource Centre is offering a series of self-help workshops and information sessions. They are held in Room 318 of the University Centre. Noon-hour workshops are being offered Feb. 23 on "Presenting a Seminar" and March 7 on "Healthy Relationships." Also on March 7, at 7 p.m., there will be a panel discussion on "The Well Woman," covering a number of issues related to women's emotional and physical health. To register for the evening program, call Ext. 3245.

A taste of honey

The Apiculture Club is holding a honey and candle sale March 1 from 9 a.m. to 5 p.m. in the University Centre courtyard. The club will also run its annual honey show and baking contest during College Royal. Students, staff, faculty and their spouses will have a chance to show honey and bake honey products. A grand prize will be awarded to the entrant with the highest total score in both categories, and ribbons will be awarded to the three top scorers in each category. For more information, call Tina at 822-5689 or Torrie at Ext. 78077.

OAC's life story

Prof. Gil Stelter, History, will speak March 1 at 10 a.m. at War Memorial Hall on the creation of OAC, as part of a Third Age Learning course he is giving on Victorian architecture and Guelph's character. Everyone is welcome. Admission is \$2.50 at the door.

Pilgrimage to the Ukraine

College of Arts undergraduate student Oleh Bych will lead "A Spiritual Pilgrimage to the Ukraine" May 7 to 21. The tour will visit Kiev, Lviv, Rovno, Moscow and Leningrad. For more information, contact Bych at 94 Neeve St., Guelph N1E 5S1, 763-3975.

Hazardous wastes seminar

Carol Miller, a professor at Wayne State University, will speak on "Containment of Hazardous Wastes" March 3 at 2 p.m. in Room 112A, School of Engineering.

Theatre in the Trees

The Arboretum's dinner theatre, Theatre in the Trees, is offering the Neil Simon comedy *I Ought to Be in Pictures*, directed by John Snowdon. Scheduled performances are Feb. 25, March 4, 11 and 18, April 1, 15, 22 and 29, and May 6. Dinner is at 6:30 p.m.; the play begins at 8 p.m. Cost is \$29.50. Tickets are available at the University Centre box office, Ext. 3940.

Systematics seminar

Vicky Funk of the department of botany, Smithsonian Institution, will discuss "Patterns of Speciation at High Elevations in South America" March 3 at 3:10 p.m. in Room 141, Animal Science building, in the next session of the Seminar Series in Systematics sponsored by the Interdepartmental Systematics Group. For more information, call Denis Lynn, Ext. 2746, or Steve Marshall, Ext. 2720.

Get your act together

The 1989 Crystal Comedy Quest is coming to U of G March 22. Prospective comedians are invited to participate in the amateur comedy competition. All forms of comedy are welcome, including stand-up routines, sketches, magic, music, juggling, impressions, ventriloquism, variety acts and mime. The winner of the first province-wide quest, Rob Trick, was from U of G. For more information, call Insight Productions at 416-596-8118.

Surplus sales

The Surplus Sales Department in Blackwood Hall has the following items for sale — SD#624 — Wild inverted microscope, model #M40-58890; SD#683 — Heerbrugg Wild microscope, #M-20 57698; SD#694 — monocular Wild Leitz microscopes; SD#708 — binocular Vickers microscopes; and SD#692 — storage cabinets. For more information and viewing, call Ext. 8139.

Make yourself understood

The Development Education Program is hosting a workshop for people who write newsletters and other print materials, to help them improve the clarity of their writing. "Writing Print Materials Everyone Can Read" will be held Feb. 25 from 10 a.m. to 4 p.m. in Room 103, University Centre. The cost is \$10, and registration is limited to 25 people. For more information or to register, call Kathy Kennedy at Ext. 6918.

Focus on civil rights

McMaster University professor Rhoda Howard, an internationally recognized expert in human rights, women in development and civil rights in Commonwealth Africa, will speak Feb. 28 at noon in Room 029, MacKinnon building. Her topic is "Civil and Political Rights in Canadian Foreign Policy: Recent Initiatives."

Dancing in the courtyard

The University Centre presents a performance by the Northern Lights Dance Theatre March 1 at noon in the University Centre courtyard. Established in Toronto in 1984, the company is known for its works that exhibit the integration of music, dance and theatre. Admission is free.

Forum on sustainable development

The Ecology Club and the Central Student Association are sponsoring a discussion and open forum on U of G's role in meeting the challenge of sustainable development Feb. 28 at 7:30 p.m. at The Arboretum. Speakers will include President Brian Segal; Prof. Norman Gibbins, acting dean of CBS; OAC Dean Freeman McEwen; OVC Dean Ole Nielsen; and CSS Dean John Vanderkamp.

Achievers series

Michael Hackenberger, CBS '81 and OAC '87, is the speaker in the third instalment of the achievers series, Feb. 22 at 5 p.m. in Room 103, University Centre. Hackenberger, manager of the Bowmanville Zoo and a member of the Species Survival Plan for Asian Elephants, is an expert on the reproduction of captive elephants in North American zoos and wildlife parks.

Human territoriality

Planning expert John Friedmann of the Graduate School of Architecture and Urban Planning at the University of California will speak on "Human Territoriality and the Struggle for Place" Feb. 23 at 7:30 p.m. at The Arboretum.

Cardiovascular Club T-shirts

Any past or present members of the Cardiovascular Club who wish to purchase a T-shirt commemorating the club's 25th anniversary should write to John Powell care of the School of Human Biology, stating their name, department, size and number of shirts desired.

What's on at The Arboretum

The Arboretum's Sunday afternoon walk series continues Feb. 26 on the theme "Animal Tracks and Tracking." Designed for families and beginners, the naturalist-led walks leave from The Arboretum Nature Centre at 2 p.m.

Elastics and envelopes

Departments that have extra elastic bands and internal mail envelopes are asked to send them to Mail Services, Room 020, University Centre, to the attention of Bob McCuen.

Function of art

Alan Gussow, internationally renowned artist, teacher and environmentalist, will speak on "The Function of Art in the Post-Nuclear Age" Feb. 24 at 3 p.m. in Room 204, Landscape Architecture building.

String quartet performs

The Guelph Chamber Music Society's ninth season of concerts continues March 5 at 3:30 p.m. at Chalmers Church. The Allegri String Quartet of Britain, which has made more than 20 recordings in 30 years, will offer a program that includes works by Beethoven, Debussy and Tippet. Tickets are \$10 each, and are available at the Bookshelf Cafe, the Garden Street Music Shop and at the door.

Accommodation needed

Furnished accommodation is needed for visiting faculty for the 1989 fall term. Call the Off-Campus Housing Office at Ext. 3357 or 3929.

Noon-hour concert

The Department of Music's Thursday noon-hour concert Feb. 23 features the Royer trio, with Kaye Royer on clarinet, Ronald Royer on cello and Manlio Pinto on piano. Program I at 12:10 p.m. in Room 107, MacKinnon building, will consist of "Trio for Piano, Clarinet and Cello," Op. 114, and "Hungarian Dance No. 5" by Brahms. Program II at 1:10 p.m. will feature "Pieces for Clarinet, Cello and Piano," Op. 83, by Max Bruch; Op. 32 by Rachmaninov; "Hungarian Rhapsody No. 12" by Liszt; and "Fantasy Trio for Clarinet, Cello and Piano," Op. 26, by Robert Muczynski. The March 2 concert will feature the Allegri String Quartet. Admission is free.



NESTLE BURSARY

Nestle Enterprises Ltd. recently contributed \$500 to the University's bursary fund in recognition of graduate student Jim Farrell being selected for the CIAU

All-Canadian Football Team. Left to right: Bob Fisher of Nestle, Farrell and Athletics director David Copp.

Photo by David Thomas, PRI

Personnel report

Appointments

Mario LaFortune, a senior research scientist with the Australian Institute of Sport, will join the School of Human Biology July 4 as assistant professor.

Cathy Tuton has changed employment from Clerk I in the Personnel Department to Central Reservations Clerk II in the Department of Residences.

Barbara Aldridge has changed employment from Secretary II to administrative secretary in the Department of Family Studies. ○

Job opportunities

As of *At Guelph* deadline Feb. 17, 1989, the following opportunities were available to on-campus employees only:

Administrative Secretary, Security Services, Physical Resources. Salary range: \$351.36 minimum; \$405.50 job rate (level 5); \$503.52 maximum.

Administrative Clerk, Veterinary Teaching Hospital. Salary range: \$320.11 minimum; \$369.95 job rate (level 5); \$460.78 maximum.

Agricultural Assistant, OVC Associate Dean's Office, Eramosa Research Station. Salary range: \$431.35 start; \$455.05 six-month rate; \$475.53 one-year job rate.

Secretary II, Chemistry and Biochemistry. Salary range: \$320.11 minimum; \$369.95 job rate (level 5); \$460.78 maximum.

Custodian 2, Housekeeping. Job rate: \$10.88 per hour; probation rate: \$2.20 per hour lower than job rate.

It is the University's policy to give prior consideration to on-campus applicants. To determine the availability of University employment opportunities, contact employment services and training, Level 5, University Centre, or telephone 836-4900.

Our people

Michael Bladon, head of Grounds, recently gave a session on "Aeration and Overseeding on Athletic Fields" to gardeners and supervisors from Department of National Defence bases across Canada.

Profs. Jim Taylor and Walter Kehm, School of Landscape Architecture, attended the Canadian Society of Landscape Architects annual conference in Quebec City. The conference theme was "Sustainable Development — Linkages Between Environment and Economics."

Taylor presented a paper on "Geographic Information Systems and Regional Landscape Planning." Kehm's paper dealt with "Environmental Quality and Its Relationship to Sustainable Development." Prof. Stewart Hills, Department of Land Resource Science, also participated and gave a paper on "Private Stewardship and Its Relationship to Sustainable Development." ○

Visiting professor

Harry Nystrom, professor of marketing and organization in the department of economics and statistics at the Swedish University of Agricultural Sciences, is Winegard visiting professor in the Department of Consumer Studies from March 1 to 17.

On March 16, Nystrom will give a public lecture on "Strategies for Product and Company Development: Management of Creativity and Innovation" at 7:30 p.m. in Room 149, Macdonald Hall. ○

Positions elsewhere

The International Institute of Communications is seeking an executive director — a person with a strong understanding of the broadcast and telecommunications industries. Send dossier by March 1 to Jean-Claude Delorme, Chair of the Executive Committee, International Institute of Communications, c/o Teleglobe Canada Inc., 680 Sherbrooke St. W., Montreal H3A 2S4.

In touch

While students were away on their mid-semester break last week, the Admissions Office held a two-day program called Interaction. On each day, secondary school students attended workshops on scientific and human issues presented by University faculty. More than 1,200 students and their teachers attended the program, which was co-ordinated by Penny Scott.

In addition, 140 secondary school teachers attended the first of three "Update" professional days. The objective of the program is to update secondary school teachers in the subject areas they are currently teaching. The program is co-ordinated by Sharon Popkey and Marisa Phillips and is made possible through the volunteer efforts of faculty from across campus who lecture at some 75 different sessions.

Personals

For Sale: 1988 Chevrolet Celebrity Eurosport, Mark, 822-0923, after 6 p.m. York 2001 home gym with pec deck, Bic 250 windsurfer with retractable dagger board, girl's figure skates size 10 and 12, fireplace screen and equipment, 10-speed Italian Torpado bicycle, girl's 16-inch bicycle, two tickets for Billy Connolly on March 4, 823-8548 after 5 p.m. 1982 Honda Civic, excellent condition, Ext. 3638 or 837-1744 evenings. English riding hat, size 7 1/4, Ext. 2965 or 821-5502. Large bags of kindling, maple off-cuts, clean, dry, no bark, 658-4530.

Wanted: Two-bedroom accommodation for quiet, responsible, non-smoking male faculty member with cat, preferably in south Guelph or Arkell area, June 1 or July 1, 823-2507. Roll-top desk, Ext. 3176 or 821-3092.

Available: Word processing using laser printer, Pat, 821-5502. Experienced secretary to do typing using Word-Perfect, Brenda, 822-8342.

For Rent: Three-bedroom newly redecorated unfurnished house, potential

income from finished basement with bath, available now, Ext. 2662 or 823-5818. Room available for woman in two-bedroom apartment, April 1, 763-0550. Room available for mature, non-smoking male, own bathroom, cooking and laundry facilities, 15-minute walk from University, available March 1, \$250 a month, Ext. 4091 or 821-4292. Large, fully furnished three-bedroom house (basement occupied) near Exhibition Park, \$950 a month plus utilities, available July 1 or Aug. 1 for one year, Ext. 2169 or 763-0221. Three-to-five-bedroom house on Westacres Road, near Fire Road, available April 1, Ext. 3426. Two-bedroom cottage at Sauble Beach, one block from beach, responsible people only, 837-3616. Recently finished two-bedroom basement apartment in family home close to University, available May 1, 836-6284.

"Personals" is a free service offered by *At Guelph* for staff, faculty and students at the University. All items must be typed, double spaced, and submitted to *At Guelph* one week before publication. ○



Cover:

Food Services employee Rob Tonin adds some cardboard to the new bin for recycling corrugated cardboard. The university is launching a major recycling effort. (See story, page 3.)

Photo by David Thomas, PRI

Inside:

Parking rates could double 1
Task force on alcohol established 1
Engineering has new home 2, 4 & 5
Guelph recycles 3



Task force faces up to alcohol concerns

U of G has established a Task Force on Alcohol Policies and Practices to recommend measures to reduce alcohol problems on campus and strengthen educational efforts to promote responsible drinking practices.

In announcing the creation of the task force, President Brian Segal acknowledged the leadership role that Guelph has played in the university system with regard to professional facility management, server training and regulation of activities in residence. But, he said, "recent events on campus make it clear that we must go further in our determination to see that student welfare, the rights of University community members and institutional

liability are being safeguarded in every way possible."

Chaired by Brian Sullivan, associate vice-president for student affairs, the task force will review alcohol-related policies and practices as they relate to the entire campus, including students, faculty, staff and visitors. It will consider the 1984 *Report of the President's Advisory Committee on Alcohol*, current experiences at this University and developments in the postsecondary system as a whole with regard to consumption patterns, liability understandings and education efforts.

The task force will then recommend specific changes to reduce high-risk alcohol-

related practices, including excessive drinking, drinking and driving, and consumption that interferes with academic activities.

Specific areas it will consider are the hours of operation in licensed premises, the degree of reliance on beverage alcohol sales to support educational and social programming, and on-campus promotions by breweries and distilleries. It will also look at the residence system's current regulations regarding alcohol consumption and their enforcement. Finally, the task force will recommend possible revisions to the focus of the University's alcohol education efforts.

Task force members will include Shelly

Birnie-Lefcovich, Counselling and Student Resource Centre; Dave Copp, Athletics; Ron Collins, University Centre administration; John Mason, Administrative Services; Garry Round, Food Services; Irene Thompson, Residences; Ron McCormick, Safety and Security; Craig Sanderson, Central Student Association; Peter Krygsman, Graduate Students Association; Steve Hill, Interhall Council; Brian Pettigrew, Student-Environment Study Group; David Overton, Faculty Club; and a representative from the faculty association.

A task force report is expected by April 4. O

UNIVERSITY
of GUELPH

At Guelph

TERN: Touchstone for threatened environment

by Owen Roberts,
Office of Research

The escalating environmental crisis has prompted U of G scientists to establish an environmental research network, the first of its kind in Canada.

President Brian Segal says the Environmental Research Network (TERN) is driven by the desire of University researchers to collaboratively address challenges and problems threatening the environment.

"All around us people are asking for sound, scientific answers to complex environmental matters," says Segal. "Our University is uniquely poised to be the touchstone for research that is ecologically essential and publicly desirable."

TERN will help co-ordinate research that has an impact on our relationship with the air, water and land. Segal says he expects TERN's activities to expand significantly as public interest in the environment grows.

"I detect an eagerness to have new environmental programs and initiatives assessed by a neutral scientific community," he says. "Besides studies of the effect of specific pollutants on our environment, I believe public policy research will become a vital activity of TERN."

TERN's mandate is to foster the implementation of environmental policies and strategies based on credible scientific research. It resolves to conduct research with both national and international implications, maintain a Canadian environmental research and policy

referencing system, produce a national environmental policy and research magazine and host public environmental research conferences.

Segal says that owing to U of G's academic diversity and expertise in agricultural and life sciences, many faculty and staff are already actively involved in both traditional and non-traditional environmental research.

Facilities and equipment are up and running in departments such as Agricultural Economics and Business, Biomedical Sciences, Botany, Crop Science, Environmental Biology, Geography, Horticultural Science, Land Resource Science, Pathology, Political Science, Population Medicine, Sociology & Anthropology and Zoology, and the schools of Landscape Architecture, Engineering and Rural Planning and Development.

Scientists in these areas are already involved in several environmental initiatives. These include research to study the effect of groundcover between rows of commercial crops to lessen the leaching effect of nitrates (groundwater contaminants), an investigation using outdoor climate-control chambers to assess the damage of ozone gas on field crops and the development of the "ELISA" (enzyme-linked immunosorbent assay) system to efficiently detect the presence of minute quantities of pesticides.

The network is being co-ordinated by Jim Mahone, director of University/Ontario Ministry of Agriculture and Food programs. O



Prof. Bryan Henry, chair of the Department of Chemistry and Biochemistry, right, and Dr. Xu Guang-Zhi, vice-director of the National Beijing Laboratory,

sign a four-year agreement that will bring some of China's best young scientists to Guelph to work as research associates within the department.

Photo by Heather Kirby, Chemistry and Biochemistry

Chinese lab links to U of G

The Department of Chemistry and Biochemistry has signed a four-year agreement with a major research laboratory in Beijing that will result in an exchange of scientists and scholars.

Department chair Bryan Henry signed the agreement earlier this month during a visit by Dr. Xu Guang-Zhi, vice-director of the National Beijing Laboratory for Structural Chemistry of Unstable and Stable Species.

During the first year of the Guelph-Beijing exchange program, Henry and Prof. Nick Westwood will visit the laboratory to give a series of seminars, and two postdoctoral researchers from Beijing University will come to Guelph to work as research associates.

"We will gain some very good young scientists," says Henry, "and what the laboratory will gain from us is training for those people and expertise to help them set up a world-class laboratory."

The Beijing lab is the product of China's ef-

fort to establish a national laboratory system that will bring together the top scientists in the country.

Guelph is one of only three Canadian universities chosen by the Chinese lab for research collaboration through an exchange program, says Henry. Queen's University and the University of Alberta will initiate similar programs.

Beijing will send scientists to Guelph for up to one year of advanced research in one or more of the fields of laser spectroscopy, ESR spectroscopy, photoelectron spectroscopy, crystallography and solid-state and interfacial science.

The program will be a great benefit to ongoing research efforts here, says Bryan. "Canada has a shortage of scientific research personnel," he says, and under this program Guelph will host some of China's best young scientists. O

Proposed parking fees would double

Campus parking fees are proposed to double from 31 cents to 62 cents a day May 1.

The hike represents the first of a number of initiatives by President Brian Segal that will allow the University to recover money from ancillary operations to be pumped into academic units.

Segal informed Board of Governors Feb. 23 of the proposed new parking rates, which will be part of the University's 1989/90 operating

budget that will be recommended to the board for approval in April.

If the budget is approved, the following parking rates will apply: annual permits, \$144 (\$12 per month); semester permits, \$48; resident (semester) permits, \$32; and motorcycle permits, \$24. Meter rates will rise from 50 cents to 75 cents an hour; attendant lot rates will rise from \$1 for the first hour and 50 cents for each hour thereafter to \$1.25 for the first

hour and 75 cents for each hour thereafter. Future parking rates can be expected to go up at the rate of inflation, said Segal.

The parking rates incorporate an opportunity cost for use of University land, the board was told. Based on some 43.5 acres used for parking purposes, an assumed value of \$100,000 per acre and an 11.5-per-cent lease rate, the University expects to increase parking revenues by \$500,000.

U of G introduced paid parking in 1965. The parking permit rate of \$42 a year or \$14 a semester remained until 1987, when a presidential ad hoc committee on parking and traffic recommended an increase to \$72 for annual permits and to \$24 for semester permits. A premium parking service at \$372 a year was also introduced. Premium parking will continue at \$300, plus the new annual permit fee.

Continued on page 3

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Senate — School of Engineering to join CPS May 1

The School of Engineering will have a new home in the College of Physical Science May 1. At its Feb. 21 meeting, Senate endorsed the Committee on University Planning (CUP) recommendation that Engineering switch from OAC to CPS, a move prompted by last year's *Report of the Task Force on Engineering*.

The report originally recommended that the School of Engineering become a separate college headed by a dean, but CUP rejected that move because of the school's size. CUP also believed the creation of a new college would not lead to a more efficient use of the University's resources and would not necessarily provide the recognition or focus that the School of Engineering is seeking.

The alternative was to move the school out of OAC into CPS, a college that has long-established links with the study of engineering on campus. CPS Dean Iain Campbell outlined for senators the history of the School of Engineering and its origins within the physical sciences at Guelph. He lauded OAC Dean Freeman McEwan for his co-operation in negotiating the move and welcomed the School of Engineering to its new home. (See centre spread for an in-depth look at the School of Engineering.)

In other business, Senate approved the Striking Committee's membership to the Senate Committee on International Activities. They are: Profs. Jan Thorsen, Veterinary Microbiology and Immunology; John McMurtry, Philosophy; Nora Cebotarev, Sociology and Anthropology; Bruce Ryan, acting dean of FACS; Walter Bilanski, School of Engineering; Ken Mullen, Mathematics and Statistics; graduate student Brian Miscner, Rural Extension Studies, and one more mem-

ber, yet to be named.

Senate also approved the election of Janice Bailey as a new graduate student senator, as well as membership changes to the Board of Graduate Studies (BGS), the Research Board and the Senate Committee on Information Technology (SCIT). Tim Woods replaces Stephen Laycock on BGS; Bailey joins the Research Board; and Campbell replaces Dean Bruce Sells on SCIT.

In Board of Undergraduate Studies (BUGS) business, Senate received for information the transfer procedures for the bachelor of applied science program, applied human nutrition and child studies majors and also a report on deadlines for requests for academic consideration.

Senate also approved the adoption of a common set of conditions for the continuation of study for students in all undergraduate degree programs, the general studies program and the unclassified category, and that the conditions be those now in place for the B.Sc. and B.Sc.(H.K.) programs.

Senate also approved that continuation of study decisions for all baccalaureate programs be based on all degree course attempts at the University, including those students may have taken before transferring into their current program. In special circumstances, exceptions may be made by the admission subcommittee, and these will be communicated in writing to students at the time of admission.

After lengthy discussion, Senate referred back to BUGS seven motions arising out of the *Report on the Semester Schedule of Dates*. BUGS is seeking Senate support for a standard 60-class-day teaching semester with classes starting on a Monday, three days of academic orientation before classes begin, a six-day add period, one more day for final exams in the fall and winter semesters, a one-week interval between the fall and winter semesters, and a five-day mid-semester winter break after the sixth week of classes.

Some senators expressed concern that a reduction in the number of class days would have a negative effect on their teaching, their ability to cover required course material and the students themselves. Other senators said faculty and students alike would benefit from knowing that a semester will always start on a Monday and from having that clean start. After a straw vote indicated a clear split among senators on the issue, the motions were withdrawn to be reviewed by BUGS.

Senate approved a BUGS proposal for a Paris semester to begin next winter. The study abroad program, which would be reviewed by Senate at the end of three years, will be offered each winter semester under a committee established by the associate vice-president, academic. The Paris semester will be open to students with an average of at least 70 per cent and a minimum of Grade 12 French who have completed at least two semesters at U of G.

Senate received for information a BUGS report on French-language courses, and approved extension of the French-language

course program for another three years.

From BGS, Senate received for information the following additions to graduate and associated graduate faculty:

Graduate faculty — D. O'Connor, Family Studies, and D. Woly, Horticultural Science.

Transfer from provisional to full graduate faculty — David Evans, Molecular Biology and Genetics.

Associated graduate faculty with term — G. Ablett, Ridgetown College of Agricultural Technology/Crop Science; D.L. Forrest-Pressley, Children's Hospital of Western Ontario/Pathology; B. Kendrick, department of biology, University of Waterloo/Botany; P.K. Misra, Ontario Ministry of Agriculture and Food/Agronomy; K. Nielsen, Animal Diseases Research Institute, Nepean/Veterinary Microbiology and Immunology; D.W. Stewart, Agriculture Canada, Ottawa/Agronomy; and P.R. Warman, Nova Scotia Agriculture College/Land Resource Science.

Associated graduate faculty without term — J.R. Bend, department of pharmacology and toxicology, University of Western Ontario/Pathology, and A. Hamil, Agriculture Canada, Harrow/Crop Science.

Also from BGS, Senate approved changes in graduate courses offered in the departments of Pathology and Physics for inclusion in the *Graduate Calendar*.

Senate dealt with four BGS motions arising out of the *Report on Strategic Planning for Graduate Studies*. It endorsed a statement on commitment to graduate education and directed the academic vice-president to formulate a long-term plan to alleviate conditions that are hindering graduate program development and to capitalize on opportunities to meet financial and resource needs of graduate programs.

Senate also supported a review of graduate student recruitment programs by the Office of Graduate Studies and directed the office to assemble and give out information on good student recruitment practices in use at U of G and elsewhere and to provide consultation to departments that wish to strengthen their recruitment activities.

In Research Board business, Senate supported the continuation of the Gerontology Research Centre with funding for another five years, when it will be reviewed again, and the establishment of a centre for the study of animal welfare, which will also be reviewed after five years. (See accompanying story.)

In Committee on Bylaws and Membership business, Senate approved new wording in bylaws on the composition of the Senate Library Committee and SCIT, a change in Senate's composition to include the president of the Graduate Students Association, and a change in bylaws governing BGS.

Senate approved these new awards:

- Mr. and Mrs. William Parker Scholarship — an annual graduate award of \$750, tenable with other Senate awards, to a full-time student entering or in the School of

Engineering. The recipient must be a Canadian citizen, with preference given to a student who is entering the PhD program and is new to the University. Application is by letter to the director of the school by Aug. 1, with university transcripts and two letters of reference. The selection committee will be the appropriate college committee on the recommendation of the school. The donor is William J. Parker.

- Waltham Scholarships — two annual undergraduate awards of \$500, tenable with other Senate awards, to two students who have completed the sixth semester of the DVM program with the highest grades in course 93-418, "Health Management for Companion and Sporting Animals." Application is not necessary, and the selection will be made by the OVC awards committee based on the recommendation of the Department of Population Medicine. The donor is Eifem Foods Ltd.
- Intervet Scholarship Canada Poultry Health Management Prize — an annual undergraduate award of \$500, tenable with other Senate awards, for a student who has completed the fourth semester of the veterinary program with the highest grade in course 93-383, "Avian Diseases/Health Management." Application is not necessary, and selection will be made by the OVC awards committee based on the recommendation of the Department of Population Medicine. The donor is Intervet Canada Inc.
- Eric Veterinary Association/ISOV Herd Health and Population Medicine Award — an annual undergraduate award of \$500 and an engraved plaque, tenable with other Senate awards, to a student who has completed the eighth semester of the DVM program with the highest average in health management, calculated on the basis of grades in 93-482, "Independent Study in Health Management" and 93-485 "Health Management." Application is not necessary, and the selection will be made by the OVC awards committee based on the recommendation of the Department of Population Medicine. The donor is Eric Veterinary Association.
- Norman W. Simmons Memorial Award — an annual undergraduate award of \$500, tenable with other Senate awards, to a student who has completed the sixth semester of the DVM program with the highest grade in course 93-303, "Diseases of Non-Domestic Animals." Application is not necessary and the selection committee is the OVC awards committee, based on the recommendation of the Department of Population Medicine. The donor is Hilda Simmons.

From CUP, Senate also approved a motion arising out of the *Report of the Task Force on Rural Resources* that the academic vice-president initiate discussions with college deans and interested departments leading to the appointment of a rural resources officer.

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At Guelph

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Animal welfare study centre first in Canada

by Owen Roberts,
Office of Research

Canada's first centre for the study of animal welfare was approved by Senate Feb. 21.

The centre, one of only four in the world, is designed to investigate all aspects of animal welfare. Its mandate covers research, education and advisory roles.

The centre will tackle such controversial and ethical dilemmas as leghold traps for furbearing animals, the seal hunt, intensive animal agriculture, the use of animals in scientific experiments and the genetic engineering of animals, says Prof. David Porter, Department of Biomedical Sciences, who chaired an ad hoc group to establish the centre.

"It will develop policies to guide our ethical relationship with non-human animals by covering a variety of issues," he says. "We have no way of predicting the conclusions these studies will reach."

President Brian Segal says the University provides an environment in which animal welfare can be freely studied and discussed

without the limitations imposed by special interests.

"Over 300 of our faculty have extensive experience in the life sciences and philosophy, dealing with animals on a day-to-day basis and analysing important ethical questions about animal welfare," Segal says.

The centre will consist of a full-time director, four full-time faculty and associated faculty from across campus who have special interests in animal welfare. These include Profs. Frank Humik, Animal and Poultry Science, and Hugh Lehman, Philosophy, founders and editors of the academic *Journal of Animal Ethics*.

Humik and Lehman were part of the committee that proposed the centre. Other members are Porter, Prof. Dave Lavigne, Zoology, and Prof. Ron Downey, OVC's assistant dean for academic affairs.

Dean of Research Larry Milligan says the establishment of the centre reflects the aims of the University as set out in the document *Toward 2000*.

"The University must continue to face the

complex, and sometimes difficult, questions associated with the use of animals in research and teaching," he says. "It will have to maintain a forum for debate in which all interested individuals have an opportunity to contribute fully."

Milligan says U of G is well-established in animal welfare studies. OVC and the departments of Philosophy and Animal Science and Poultry offer animal welfare courses such as "Ethics in Agriculture," "Ethics in Veterinary Medicine," "Principles of Farm Animal Care and Welfare" and "Introduction to Laboratory Animal Care and Management."

In addition, the Animal Care Committee offers an animal care short course for graduate students in conjunction with the Faculty of Graduate Studies, and short courses on aspects of animal welfare in conjunction with the Office of Research.

Many other courses across campus deal with elements of animal welfare, including animal health, nutrition, behavior and the welfare of captive animals. O



RECYCLE GLASS BOTTLES

Students Larissa Newman and Jason Thompson pitch in by placing glass bottles in one of the University's recycling bins.

Photo by David Thomas, PRI

We recycle!



U of G is to launch a major expansion of its recycling programs March 6 at a ceremony hosted by President Brian Segal and Guelph Mayor John Counsell.

In co-operation with a city program, the University will announce the initiation of a recycling program for fine paper. This, along with the collection of corrugated cardboard and the expansion of newspaper, tin and glass drives, will have a significant impact on the amount of garbage the University dumps, says Roger Jenkins, assistant director of auxiliary operations, Physical Resources, who heads an ad hoc committee on recycling.

U of G has been dumping about 3,700 tonnes of garbage per year, and its annual dumping fees are about \$120,000, says Jenkins. But current recycling has already been beneficial. The University has been shipping about two tonnes of newspaper and 5.5 tonnes of tin and glass each week to the city's recycling contractor. About 15 tonnes of fine paper have already been collected before the official launch of the fine paper program, and a new 30-cubic-metre bin for corrugated cardboard was filled in less than a week.

Food Services is a big contributor to the programs and will play an even bigger role, says director Garry Round. To reduce the number of styrofoam cups it uses, Food Services will hold a "Mountain of Mugs" sale March 6 to launch a reusable mug campaign. People who buy a mug will get their first fill-up free.

From then on, mug users will be charged the small beverage price, Round says.

The styrofoam cups Food Services uses are free of chlorofluorocarbons, but it uses 1,070,000 of them each year, and Round wants to see that number reduced. Disposable products such as plates and cutlery will still have to be used, though, because potential losses and facilities to handle reusable items are too expensive, he says.

The other major thrust of the program kick-off, which begins at 1:45 p.m. in the University Centre courtyard, will be to promote the fine paper program, Jenkins says. All departments and offices on campus will be provided with a container for fine paper, which will be collected by Housekeeping staff.

Housekeeping staff use paper products — such as paper towels — that are made from recycled paper, and the Purchasing Department is investigating the possibility of buying recycled fine papers. ○

B of G Continued from page 1

Acknowledging that the parking fee hike may not be popular, Segal said he hopes the University community will understand why the increase is necessary. "The University can't wait any longer for the government — or industry — to respond to our needs," he said. "We must now look to our own resources to generate revenue."

It's also important, he said, that people understand where the money will go — into the academic units for new teaching equipment and classroom and laboratory space.

B of G chair Ian Murray told the board that "it takes courage to make an unpopular decision for the sake of fiscal responsibility." Board member Clara Marett noted that the new rates will be competitive with parking rates downtown, at the local hospitals and at all other Ontario universities except Wilfrid Laurier.

B of G also authorized the administration to lease University Centre space now occupied by the Guelph Campus Co-operative when the Co-op's lease expires this summer. The board was also informed that the University plans to take over the Campus Co-op Bookstore in 1990.

A director of retail operations has also been hired to be responsible for a number of diversified University retail operations across campus — a bookstore, general merchandise outlet, pharmacy, sport pro shop, computer store and outlets for art supplies and general University stationery.

Robert Kay, bookstore manager at Ryerson Polytechnical Institute, has been hired for the position and will join the University March 20. Kay, who has been Ryerson's bookstore manager for five years, has also been a major participant in the design and implementation of two new major retail outlets on Ryerson's campus.

In other business, the board approved an 8.9-acre site at College Avenue and Edinburgh Road for the construction of a proposed 200-unit family housing project. It also authorized the administration to call tenders for phases 1 and 2 of the Athletics Centre project, and to award a \$1.3-million contract to Phil Fletcher Contracting Ltd. to build service trenches for the proposed environmental biology/horticultural science building.

Changes to the *Special Plan Agreement* and amendments to the *Faculty Policy* on tenure and promotion were also approved by the board.

Third-year students Adrian Smith and Brian Van Camp will serve on the board for one-year terms that begin July 1, and by order of the lieutenant-governor, Elizabeth Macrae and Bill Brohman have been reappointed to the board for second three-year terms that began Jan. 16. ○

Senate Continued from page 2

ment of a co-ordinator of rural resources/environmental stewardship/ecology studies and a co-ordinating committee. Senate also supported a revised University planning process. (At Guelph will carry more on the planning process in an upcoming issue.) ○

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Forum

Suffering from the Rushtons of this world

"Open-mindedness is a quality which will always exist where a desire for knowledge is genuine." Bertrand Russell.

A university is a place set aside by society, at great cost, for its education and criticism. It should be a place where reasonably intelligent people of all races search for the truth. So when dogmatists use the name of a university to bolster already disproved relationships between intelligence and race, the university should say something about it. When the method and aims of science are confused and perverted, scientists should say something about it.

University of Western Ontario psychology professor Philippe Rushton is only the latest in an unending procession of people claiming a relationship between intelligence, race and evolution. Many of them started out with a conviction that brain size, intelligence, race and evolutionary advancement are related. The more thoughtful of them finally admitted they were wrong.

Alfred Binet, director of the psychology laboratory at the Sorbonne, in 1889: "The relationship between the intelligence of the subjects and the volume of the head... is very real and has been confirmed by all methodological investigators, without exception."

But in 1900: "The measures had required travelling, and tiring procedures of all sorts, and they ended with the discouraging conclusion that there was often not a millimetre of difference between the cephalic measures of intelligent and less intelligent students. The idea of measuring intelligence by measuring heads seemed ridiculous."

C.C. Brigham, assistant professor of psychology at Princeton, in 1923: "The decline of American intelligence will be more rapid than the decline of the intelligence of European national groups, owing to the presence here of the Negro... Immigration should not only be restrictive, but highly selective... The really important steps are those looking toward the prevention of the continued propagation of defective strains in the present population."

But in 1930: "Comparing studies of various and national groups may not be made with existing tests... One of the most pretentious of the comparative racial studies — the writer's own — was without foundation."

Race and intelligence are two almost in-

definable, practically unrelated, aspects of humans — and so is evolutionary stage. What is advanced? Biochemical studies indicate that humans may be more "primitive" than some great apes. Should we turn the management of the world over to gorillas? Maybe we should; they are more considerate, peaceful, environmentally sensitive species than our own.

Scientists are often guilty of confusing the means and the end. They imagine that by measuring everything, somehow things are explained. Yet measurement for its own sake is pointless if you want to understand something. So vast funds are devoted to such things as computer simulations of fluid flows, without the investigator having any idea of the flow structure.

Engineers and others, necessarily and appropriately, have to use such methods — they have to make sure their structures do not collapse. But it is a mistake to confuse such methods with science — the attempt to comprehend nature. Social "scientists," among others, have often taken over the methods of science with even less understanding of the ends than scientists have.

Scientists' work may lead to despair and evil, but this depends on the interpretation and use that society places on it. Social studies have a more immediate impact, particularly studies of human beings. People working in these fields have an even greater responsibility than scientists to make sure that what they are saying is based on extensive, reliable, repeatable and thoughtful studies and discussion.

S.J. Gould, in 1981: "If this subject were merely a scholar's abstract concern, I could approach it in a more measured tone. But few biological subjects have had a more direct influence upon millions of lives... Millions of people are now suspecting that their social prejudices are scientific facts, after all. Yet these latent prejudices themselves, not fresh data, are the primary source of renewed attention. We pass through this world but once. Few tragedies can be more extensive than the stunting of life, few injustices deeper than the denial of an opportunity to strive or even to hope, by a limit imposed from without, but falsely identified as lying within."

I do not think Rushton should be fired. That way of thinking leads, eventually, to the gas chambers. But shoddy, dogmatic and biased

studies should be exposed and publicized, and people performing such studies, whether in science or art, should not receive public support.

In the end, it was all said by W.K. Clifford in 1877, more than 100 years ago: "Every time we let ourselves believe for unworthy reasons, we weaken our powers of self-control, of doubting, of judicially and fairly weighing evidence. We all suffer severely enough from the maintenance and support of false beliefs and the fatally wrong actions which they lead to, and the evil born when one such belief is entertained as great and wide. But a greater and wider evil arises when the credulous character is maintained and supported, when a habit of believing for unworthy reasons is fostered and made permanent."

"If I steal money from any person, there may be no harm done by the mere transfer of possession; he may not feel the loss, or it may prevent him from using the money badly, but I cannot help doing this great wrong toward man, that I make myself dishonest. What hurts society is not that it should lose its property, but that it should become a den of thieves...."

"In like manner, if I let myself believe anything on insufficient evidence, there may be no great harm done by the mere belief, it may be true, after all, or I may never have occasion to exhibit it in outward acts. But I cannot help doing this great wrong towards man that I make myself credulous. The danger to society is not merely that it should believe wrong things, though that is great enough, but that it should become credulous, and lose the habit of testing things and inquiring into them, for then it must sink back into savagery."

"If a man, holding a belief... keeps down and pushes away any doubts which arise about it in his mind, purposely avoids the reading of books and the company of men that call it in question and discuss it, and regards as impious those questions that cannot easily be asked without disturbing it, the life of that man is one long sin against mankind."

We all suffer enough from the opinions and actions of dogmatists of all types — from Rushtons to Hitlers, from popes to ayatollahs. They ought to be questioned and criticized at every opportunity.

Prof. Michael Brookfield,
Land Resource Science.

Inside Guelph

The School of Engineering

Stories by Barbara Chance

Come May, the School of Engineering will have a new home.

Its physical location won't change—it will still be located in the Thornbrough building, where it's been since 1973. But it will no longer be a part of OAC. Faculty, staff and students are moving May 1 to the College of Physical Science, which will be renamed to include engineering.

The move was sparked by the recommendations of a Senate-appointed task force that examined the role and future of the School of Engineering last year. The task force initially recommended that the school be made a separate college, but that was eventually deemed unfeasible because of the small size of the school. As an alternative, Engineering faculty unanimously proposed a change in colleges, a move that has been considered in the past because of the close links between the school and CPS.

Prof. Bill James, new director of the School of Engineering, thinks the switch to CPS will be a winning combination.

"It will give faculty and students a whole new sense of purpose and direction," says James. "We'll be repackaging our courses and offering new programs, which will help make the school much more visible. As a result, we hope to attract more students, especially gifted ones, as well as more funding for research."

With the move from OAC, agriculture will no longer appear to be the sole focus of the school, says James. Agricultural engineering will still be an integral part of the program, he says, but the number of majors will be doubled, increasing the school's scope. In addition to the other current majors of water resources and biological engineering, the school hopes to offer programs in environmental, food and information engineering.

"Guelph already has the only accredited water resources engineering program in the country and is the best engineering school in Canada in the area of rural resources and environmental biology," says James. "With the new programs in place, Guelph should appeal to a much wider range of engineering students and researchers than traditional engineering."

Relocated in CPS, the school will be able to collaborate much more with the departments of Mathematics and Statistics, Physics, and Computing and Information Science, says James. "We have a lot in common with the people in these areas, and our association with them will offer us great opportunities to expand our research base."

On the other hand, he says, "we don't expect any of our current activities and existing ties with biological and agricultural sciences to lessen. In fact, we expect them to be enhanced."

With the new affiliation, the School of Engineering's programs will appear to be more firmly rooted in engineering sciences than in the past, says James. This change in image and the wider appeal of programs is expected to make the school more attractive to students outside of Ontario.

The new director says he'd like to see the demand for places in the school grow steadily over the next five years and graduate enrolment go from today's 30 to between 40 and 50.

To help promote Engineering's new programs and attract more students from across Canada, the school has hired Janet Diebel, a 1986 graduate of the school, as liaison and counselling officer.

James, who says he came to Guelph because the School of Engineering "has a strong international reputation, excellent faculty and staff, produces lots of high-quality research and has a fabulous body of students," applauds the task force report that led to the college switch.

"The report proved that the School of Engineering is an important part of the University of Guelph and important to the province of Ontario, if not all of Canada," says James.

"We are working hard to achieve all the recommendations in the task force report. We are moving forward. The school is delighted to



School of Engineering faculty and staff, from left to right, front row: Ramesh Rudra, Jan Jofriet, Peggy Coghlan, Betty Williams, Al Miller, Karen Andersun-Huldsworth, Doug Joy and Peter Chisholm. Second row: Sue Lewis, Sandra

Ausma, Sam Zelin, Cal Hutchins, Don Gordon and Lambert Otten. Third row: Klaus Vogel, Gauri Mittal, Tony Meiering, Val Davidson, Janet Diebel, Vlad Pavlicik, Hugh Whiteley and John Ogilvie. Fourth row: Egon Jordan, Satish Negi, Bill James,

Paul Found, Leslie Downes and Dave Teichroeb. Fifth row: Bill Verspagen, Merie Hiskett, Walter Bilanski, Ralph Brown and Gord Hayward.

Photo by Herb Rauscher, Photographic Services

have this strong support from the University."

In the past year, four new faculty members have joined the ranks in the School of Engineering, bringing the total to 17. The school is the only engineering faculty in Canada where all regular members are licensed professional engineers.

- Walter Bilanski came to U of G in 1956, the year he received his PhD from Michigan State University. A former president of the Association of Professional Engineers of Ontario, he does research on the mechanization of tree fruit and forage harvesting and handling, engineering aspects of peanut production in southern Ontario and the engineering properties of agricultural-biological materials.

- Ralph Brown is a U of G devotee. He did all his undergraduate and graduate work here, culminating last year with the completion of his PhD. A former research associate in the school, he came on board as a faculty member in September. His research interests lie in the thermal properties of agricultural and food materials, grain drying and storage technology, and solar and alternative energy sources.

- Peter Chisholm began his association with the School of Engineering as a sessional lecturer in 1966, while working as principal hydraulic engineer for a Toronto firm of consulting engineers. In 1970, he joined the faculty full time. An M.A.Sc. graduate of the University of Toronto, Chisholm does research on the relationship of human problem solving to engineering design, the soil water storage and transport characteristics of Ontario soils and the abatement of pollution by aquaculture in Ontario.

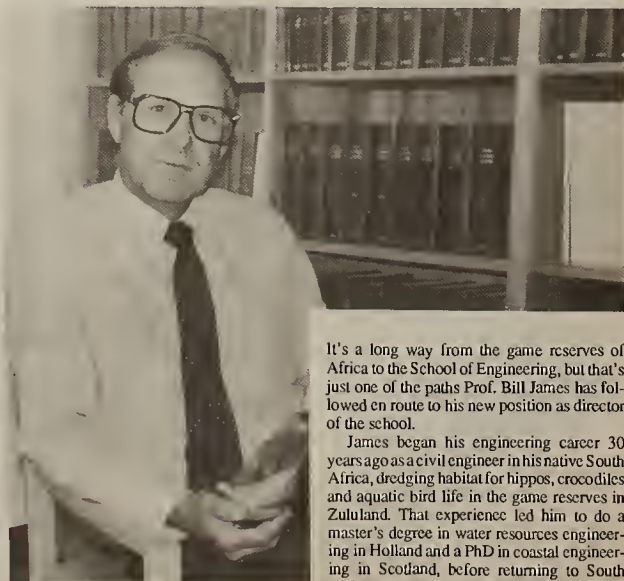
- Val Davidson, a 1977 M.Sc. graduate of U of G, returned to the University last September to join the engineering faculty. She's a 1983 PhD graduate of the University of Toronto, with experience in industry as a research engineer and senior food engineer. Davidson does research on

process control in food processing, on-line sensors for processed foods and extrusion processing of foods.

- Gord Hayward received his PhD from the University of Waterloo in 1981 and worked in computer design before coming to Guelph in 1983. His research focuses on instrumentation, particularly sensors, and biological processes such as fermentation control.

- Trevor Dickinson is a 1964 master's graduate of OAC who began teaching in the School of Engineering in 1967 after completing a PhD at Colorado State University. His research explores the relationships between rainfall and run-off frequencies, the sources of soil erosion and fluvial sediment, temporal patterns and extremal characteristics of fluvial suspended sediment loads and streambank

Varied path leads new director to



Bill James

Photo by David Thomas, PRI

It's a long way from the game reserves of Africa to the School of Engineering, but that's just one of the paths Prof. Bill James has followed en route to his new position as director of the school.

James began his engineering career 30 years ago as a civil engineer in his native South Africa, dredging habitat for hippos, crocodiles and aquatic bird life in the game reserves in Zululand. That experience led him to do a master's degree in water resources engineering in Holland and a PhD in coastal engineering in Scotland, before returning to South Africa to become a senior lecturer in water resources at the University of Natal.

At Guelph listens Results of readership survey

What does the University community want *At Guelph* to be?

Some answers to that question were provided recently by 112 on- and off-campus readers who responded to our readership survey. The respondents consisted of 78 employees, 10 retirees, five family members, nine alumni, seven students and three other interested readers.

Because *At Guelph* has a circulation of 8,000, the survey return of 112 is not statistically valid. But the responses do provide some significant observations, which will be discussed at a meeting of the *At Guelph* editorial advisory committee.

Some 71 per cent of the respondents read every issue of *At Guelph*. Another 23 per cent read most issues and four per cent read it occasionally or rarely.

Generally, readers praise the publication and cheer us on. The internal readers say it is informative, reliable and responsible — an indispensable information tool for the University community and the city. The external readers, including our retirees and alumni, say that it keeps them in touch and supportive with interest and dollars.

Readers vote "Research Report," "Focus," "Faculty, Staff and Student Activities," "Briefly" and "Coming Events" as their favorite sections, followed by "Letters to the Editor," "Board of Governors," "Personnel Report," "Forum," "Graduate News" and "Visitors." Then they read "Senate," "Personals," "Books," "Courses," "Campus Canada," "Speeches" and "Awards," followed by "Grants" and "Positions Elsewhere."

Although most readers rated "Letters to the Editor" high, six did not, saying the section is "a total waste of time" and "does not add to the character of the University." Readers also note that information contained in "Positions Elsewhere" and "Campus Canada" is published elsewhere, such as *University Affairs* or *CAUT Bulletin*.

Seventy-four per cent of our readers want more department profiles. This need is being met through "Inside Guelph," which was introduced last semester and has proven to be popular.

Fifty-four per cent of the respondents would like to see more interviews with academic and administrative management. Thirty-eight per cent favor the introduction of employee opinion polls. Thirty-two per cent appreciate our attempts at humor with cartoons, but several readers want this on a limited basis.

Twenty-four per cent would welcome a health and fitness column. Eight per cent favor sports coverage, but many readers say they get this news in *The Ontarion* or the local newspaper.

Readers also suggest a digest of other university news; *At Guelph* has since introduced "Education Watch." Readers would also enjoy more "Research Report" and "Forum" articles. A regular column from the deans is also a suggestion.

One reader would like the publications section reinstated; another suggests the return of new employee photographs and biographies.

Others request columns on queries-answered and environmental issues, an employee-of-the-week profile, contests and short stories.

One reader says "Coming Events" should be expanded to include off-campus events, and another would like to see stories on projects as a result of *The Campaign*.

Readers would also like articles that contain real criticism and other points of view. "It still looks whitewashed," says one reader who wants more controversial issues covered — sexual harassment of students, wrongful dismissals, mandatory retirement and the low priority given teaching at tenure and promotion time.

Fifty-three per cent of the respondents vote against charging for "Personals," although one reader strongly disagrees, saying there should be "no free rides." Fifty-one per cent support paid commercial advertisements, if they are kept to a minimum and do not feature liquor or cigarettes.

Forty-six per cent of the external readers indicate they would be willing to pay a subscription charge or make voluntary donations to cover mailing costs.

Sixty-three per cent of the respondents say they like *At Guelph's* tabloid format, describing it as easy to handle and read, and they support the use of recyclable newsprint. Of the 36 per cent who don't like the present format, 22 per cent would like to return to the newsletter format: "It fitted in a binder to save for future reference," says one reader. Some 12 per cent voted for a magazine "That would give the University a more prestigious look," says a respondent.

Readers who do not like the tabloid appear to be strongly opposed to the newsprint. Comments included: "It really takes away from the professional look of the publication," "At Guelph has lost its cachet" and "I am generally pleased with the publication, but I am dismayed at the loss of quality since switching to newspaper. For those who see U of G through this publication, it is a less-than-appealing view."

But another reader says: "I feel it should retain its mandate as a tabloid and not venture into anything fancy... just give me the news."

Sixty-three per cent of our readers think it is essential that *At Guelph* be published once a week for timely news and comment. Another 32 per cent said it should be published twice a week and four per cent said once a month. Readers who want a monthly or bimonthly publication would prefer a magazine, especially our external readers.

At Guelph received top marks for quality writing. "It's straightforward... how it should be in this kind of publication," says one reader.

Two readers commented on distribution and circulation — a reader in OVC receives *At Guelph* late each week and another suggests that circulation be expanded to ensure that all members of the University community receive a copy.

Finally, we'd like to thank everyone who took the time to complete our readership survey. We hope more of you will respond next time. ○

erosion recession rates.

- Jan Jofriet worked in industry as a structural and civil engineer for 22 years in his native Netherlands and Canada before earning his PhD at the University of Waterloo and joining Guelph's engineering faculty in 1972. He is involved in computer-aided analysis and design of silage storage systems, design of tower and bunker silos and sprayed-on polyurethane insulation in humid environments.
- Doug Joy, who joined Engineering in January, has an M.Sc. from the University of Ottawa and is completing work on a PhD in water resources engineering from the University of Waterloo. His research interests lie in particulate transport, especially in porous media, and the hydraulics of rivers.
- Anton Meiering, a native of West Germany who completed his PhD at the University of Giessen in 1972, came to the School of Engineering in 1970 after teaching and doing research at Giessen, the University of Bonn, Michigan State University and West Virginia University. His research focuses on sensor development for monitoring biofuel fermentations, the development of microprocessor control and optimization systems for biofuel fermentation, and the analysis of microbial fermentation kinetics and toxic gas production in silos.
- Gauri Mittal taught at the Haryana Agricultural University in India for six years before coming to North America to do his M.Sc. at the University of Manitoba and his PhD at Ohio State University. He came to the School of Engineering in 1980 as a postdoctoral fellow and joined the school's faculty two years later. His research focuses primarily on meat processing, including the freezing and aging of meat, and he is working to decrease the level of salt and fat in processed meat.
- Satish Negi came to U of G in 1982 after teaching and doing research for six years at McGill University, where he earned his PhD. He is involved in computer-aided design of farm silos and agricultural building components, and studies the physical properties of plant materials.
- John Ogilvie, director of the School of Engineering from 1977 to 1988, came to that position after eight years as professor and six years as chair in the agricultural engineering department at McGill University. He earned his PhD from Purdue University in 1971. Ogilvie's research involves animal production systems, livestock structures ventilation and expert systems and simulation.
- Lambert Otten came to Guelph in 1973 after earning a PhD at the University of Waterloo and teaching chemical engineering at the University of Saskatchewan. His research work centres on the thermal and mass transfer properties of agricultural products, grain drying, handling and storage, and microwave applications to animal heating and food processing.
- Ramesh Rudra worked as a research assistant in India for five years before beginning work on his MS and PhD at Pennsylvania State University. He joined the School of Engineering in 1980 as a research associate and became a faculty member in 1982. In his research, Rudra is involved in hydrologic and drainage modelling and non-point source pollution modelling, as well as the study of soil erosion, sediment and contaminant transport processes, infiltration, overland flow and drainage processes, and expert systems.
- Hugh Whiteley began teaching at U of G in 1966 and earned his PhD here in 1975. Prior to coming to Guelph, he worked as an engineer and hydrologist with British Guyana's ministry of works and hydraulics. He does research on snow-melt-period streamflow timing, modelling of spatial variation of runoff from agricultural land in Ontario, the impact of land-use changes and drainage on streamflow, and water quality characteristics of flow components from agricultural watersheds.
- Sam Zelin, who is used to being last on alphabetical rosters, joined Guelph's engineering faculty in 1969, after earning his PhD at the University of Toronto. His research focuses on enhanced anaerobic digestion of cellulose and instrumentation for agriculture and biology.

o School of Engineering

In 1970, James left South Africa for political reasons, coming to Canada as a visiting professor at Queen's University. The following year, he joined the faculty at McMaster University and remained there for 16 years. Just before coming to Guelph, he held an endowed chair in computational hydrology at the University of Alabama and was chair of civil engineering at Wayne State University in Michigan.

He has also been a visiting professor at the University of the Witwatersrand and guest professor at the University of Lund and Lulea in Sweden, and has given workshops and seminars throughout Canada, the United States, Australia and Scandinavia.

A specialist in predicting the impact of urbanization on the environment, James is the author of more than 300 articles. His primary research involves the computer simulation of urbanization to predict its effects on the surrounding landscape.

He is particularly interested in pollution buildup on land, storm motion across urbanizing areas, the washoff of pollutants through ditches, rivers, dams and sewers, the flow of sewer wastes, the performance of waste water treatment plants and the dispersion of pollutants through rivers and lakes.

James is continuing his work on computer simulation here at Guelph. In fact, he'd like to see the school devoting some of its expertise

to modern computer-based methods for province-wide water and land resource planning, development and management. This might include the development of sensors, data transmission systems and software, packaged together for farmers to help improve productivity, and communications systems to interface with expert systems based on geographic data.

The resulting database located in the School of Engineering would allow researchers to simulate on the school's computers the washoff and transport of organic pollutants as a function of the evolving landscape during urbanization — from the days of the early settlers right on up to the future — at least for the Canadian half of the Great Lakes Basin.

James has worked extensively in the Canadian Arctic and Greenland, originally as a mountaineer, when he led a 1971 Queen's University expedition to climb four peaks previously unclimbed on Baffin Island, and more recently as a scientist and engineer.

He also has an interest in Ontario's engineering heritage. Along with his wife, Lyn, he published a book on Hamilton's old pump station, which led to the creation of Hamilton's Museum of Steam and Technology. The couple is now working on a new edition of the book.

James is a fellow of both the American and Canadian societies of civil engineers and holds a D.Sc. from the University of Natal. ○

Co-ordinator of toxicology sought

From the office of the associate vice-president, academic

Applications and nominations from University faculty are invited for the position of co-ordinator of toxicology programs. Reporting to the dean of OVC, the co-ordinator will have responsibility for the undergraduate and graduate programs in toxicology.

Specific responsibilities include:

- counselling students;
- convening and chairing the undergraduate co-ordinating committee and the proposed collaborative graduate program committee (at least twice annually);
- participating in the deliberations of related undergraduate program committees and, as necessary, the Board of Graduate Studies;
- arranging for course instruction in consultation with department chairs

and carrying out other undergraduate administrative duties that normally fall to chairs or academic counsellors, such as signing grade reports, authorizing audits, approving course changes and administering the proposed collaborative graduate program in toxicology;

- advising on library acquisitions; and
- administering any budget resources allocated to the undergraduate and graduate toxicology programs.

The position is for a five-year term, effective June 1. It will carry an administrative stipend, and the co-ordinator will be given release time from some regular duties.

Applications and nominations should be sent to Prof. Leonard Conolly, associate vice-president, academic, by March 20. ○

Briefly

International Women's Day

Several events are scheduled to commemorate International Women's Day March 8, on campus and downtown. They include "Unlearning Racism," a workshop with Marjorie Beaucage sponsored by the Women's Resource Centre, to be held March 7 at 7 p.m. at 239 Bristol St. The resource centre is also sponsoring with the Bookshelf Cinema a screening of German director Margreth Von Trotta's film "Marianne & Julianne" March 9 at 7 p.m. at the Bookshelf, 41 Quebec St. Admission is \$5.50. The film will be followed by an informal discussion about feminist strategies for change.

Benita Clark, who launched a successful complaint against Stelco, will discuss "Sexual Harassment in the Workplace" March 8 at 7:30 p.m. in Peter Clark Hall. The lecture is sponsored by the Guelph Status of Women Action Group. Other events include workshops on images of women in the media, overcoming barriers to employment, literacy and feminist action. For more information, call the Women's Resource Centre at Ext. 8559.

Anti-apartheid week

The Southern Africa Interest Group of OPIRG-Guelph is running its fifth annual "Anti-Apartheid Week" until March 3. On March 2, Yusuf Saloojee, the chief representative to Canada of the African National Congress, will discuss "Canada's Relationship with Southern Africa: Is It Finally Time to Impose Total Sanctions Against Apartheid?" at 7:30 p.m. at Chalmers United Church. Admission is free, but donations will be accepted. On March 3, the popular play *Woza Albert* will be performed by the Siyayha Theatre of Energy Co. at 8 p.m. at the Arboretum Centre. Admission is \$7, with proceeds going to the African National Congress freedom fund. Tickets are available at the OPIRG office, 1 Trent Lane, 824-2091.

WRC presents film series

The Women's Resource Centre is offering a free film series on the theme "Canadian Women" Thursdays at noon in the University Centre. Upcoming films will focus on cartoonist Lynn Johnston March 2 in Room 441, singer/songwriters Kate and Anna McGarrigle March 9 in Room 441, the differently abled March 16 in Room 332, politics March 23 in Room 334 and sports March 30 in Room 441.

A look at liberal education

As part of its 150th anniversary celebrations, Mount Allison University is holding a two-day conference on the theme "The Past and Future of Liberal Education" April 28 and 29. Featuring panel discussions and paper presentations, it will provide a solid historical foundation while addressing some of the major past, present and future aspects, problems and goals of liberal education. For more information, contact the Office of Conferences and Summer Programs, Mount Allison University, Sackville, N.B. E0A 3C0, telephone 506-364-2251.

Canada World Youth seeks volunteers

Canada World Youth is offering a new program for Canadian volunteers aged 21 to 25 who have no previous overseas experience but have the skills or knowledge needed to make a useful contribution to work projects in developing countries. The projects, two to six months in length, are designed and run by local communities with the co-operation of Canadian volunteers as "work partners." For more information, call Franlie Allen, Development Education program, Ext. 6915.

Development education conference

The *International Journal of Educational Development* is holding its 1989 conference Sept. 26 to 28 at University College, Oxford, England. With the theme "Development Through Education: Learning from Experience," the conference will focus on research and consultancy, information and news media, management and structures, finance 6 AT GUELPH / March 1, 1989

and education, and politics and equity. For more information, call Franlie Allen, Development Education Program, Ext. 6915.

Computing seminars

Today's topic in Computing Services' lunchtime discussion series is "Desktop Publishing 11—Apple/Mac Solutions." It begins at 12:05 p.m. in Room 204, Computing Services. Next Wednesday, discussion will focus on "How to Learn the 'C' Programming Language."

OVC seminars

The OVC seminar series continues March 1 with Dr. Viktor Reinhardt of the Regional Primate Research Centre in Wisconsin speaking on "Strategies for Enriching the Environment of Laboratory Rhesus Monkeys" and March 8 with graduate student Dr. Leonel Mendoza discussing "Pythiosis and Skin Disease of Horses in Tropical and Subtropical Countries." The seminars begin at 12:10 p.m. in Room 1438, Clinical Studies building.

CSRC offers self-help workshops

The Counselling and Student Resource Centre is offering a series of self-help workshops and information sessions. They are held in Room 318 of the University Centre. On March 7 at noon, discussion will focus on "Healthy Relationships." At 7 p.m., there will be a panel discussion on "The Well Woman," covering a number of issues related to women's emotional and physical health. To register for the evening program, call Ext. 3245.

Women-in-development fellowships

In the 1989/1990 fellowship program for East and Southern Africa, the International Centre for Research on Women is offering fellowships for female professionals and graduate students who want to receive training in developing policies and programs to increase the economic participation of low-income women in developing countries. Participants with a variety of backgrounds are needed, and citizens of those countries who are studying or working in North America are encouraged to apply. For more information, call Franlie Allen, Development Education Program, Ext. 6915.

Focus on the elderly

The next session in the Gerontology Research Centre's winter seminar series March 14 will focus on "The Elderly: Housing and Service Preference." Guest speakers are Prof. Alun Joseph, Geography, and Prof. Grant Hollett, Geography and the University School of Rural Planning and Development. It begins at 12:10 p.m. in Room 334, University Centre.

OAC '30 sponsors sculpture

The OAC Class of 1930's 50th anniversary gift will be sponsorship of a bronze sculpture by Evan Penny for the Donald Forster Sculpture Park at the Macdonald Stewart Art Centre. Penny's six-foot sculpture, "Mask," won the art centre's 1989 national sculpture competition, which was sponsored by Imperial Tobacco. Members of OAC '30 have raised \$15,000 for the project.

Theatre in the Trees

The Arboretum's dinner theatre, Theatre in the Trees, is offering the Neil Simon comedy *I Ought to Be in Pictures*, directed by John Snowdon. Scheduled performances are March 4, 11 and 18, April 1, 15, 22 and 29, and May 6. Dinner is at 6:30 p.m.; the play begins at 8 p.m. Cost is 29.50. Tickets are available at the University Centre box office, Ext. 3940.

Systematics seminar

Vicky Funk of the department of botany, Smithsonian Institution, will discuss "Patterns of Speciation at High Elevations in South America" March 3 at 3:10 p.m. in Room 141, Animal Science building, in the next session of the Seminar Series in Systematics.

What's on at The Arboretum

The Arboretum's Sunday afternoon walk series continues March 6 on the theme "Backyard Maple Syrup." Designed for families and beginners, the naturalist-led walks leave from The Arboretum Nature Centre at 2 p.m. Maple Syrup Days at The Arboretum run March 11, 12, 18, 19, 25 and 26, and April 1, 2, 8 and 9. Hours are 9:30 a.m. to 3:30 p.m.

English professor to speak

Linda Hutcheon, a professor of English at the University of Toronto, will give an illustrated lecture entitled "Glances Askance—Canadian Ironies," at 11 a.m. in Room 233, MacKinnon building.

One-act plays

A series of one-act plays directed by students from the Department of Drama will be presented in Massey Hall Theatre March 10 to 12 and 17 to 19. The series features *Terminal Bar* by Paul Selig March 10 at 8 p.m., *Alias* by Bryan Wade March 11 at 8 p.m., *Krapp's Last Tape* by Samuel Beckett March 12 at 2 p.m., *No Big Deal* by the Archambault Theatre Group March 17 at 8 p.m., *At Home* by Michael Weller March 18 at 8 p.m., and *Life Under Water* by Richard Greenberg March 19 at 2 p.m. Admission is \$2 at the door.

Choir in concert

Tickets are now available for the March 19 performance of the University of Guelph Choir. Conducted by Noel Edison, the recital begins at 3:30 p.m. in St. George's Anglican Church. Tickets are \$6 general, \$5 for students and seniors, and can be purchased from any member of the choir. For more information, call the Department of Music at Ext. 3127.

Achievers series

Next speaker in the 25th anniversary achievers series is Philip Chan, HAFS '75, a local restaurateur and entrepreneur. A founding member of the Ontario Chinese Restaurant Association, Chan was one of 11 Canadian chefs invited by the China Travel Service to speak to chefs in major Chinese hotels on the preparation of Chinese cuisine for western visitors. His business interests include the China Tiki restaurant and a real estate holding company in Guelph and a Bonanza restaurant franchise in North York. Chan will speak March 8 at 5 p.m. in Room 103, University Centre. He will focus on the importance of integrating a career and personal life.

Write on!

The Counselling and Student Resource Centre is sponsoring an essay writing workshop March 7 at noon in Room 335, University Centre, and a report writing workshop March 15 at noon in Room 441.

Counselling available

The Marriage and Family Therapy Centre in the Department of Family Studies offers professional counselling on marital, family, sexual and relationship issues. For information or an appointment, call Ext. 6335.

Our common future

The sustainable development seminar series continues today at noon in Room 103 of the University Centre with Prof. Vernon Thomas, Zoology; radio broadcaster Carole Giangrande; and Prof. Glenn Fox, Agricultural Economics and Business, discussing "Economics and Ethics." Tonight at 7:30 p.m. at The Arboretum, "Implications for Canada" will be examined by John Jackson, founder of the Citizen's Network on Waste Management; Jeanine Ferretti of Pollution Probe; and MPP Carmen McClelland, parliamentary assistant to Environment Minister Jim Bradley. The series concludes March 8 at 7:30 p.m. at The Arboretum with a discussion of "Implications for Guelph." Guest speakers are Graham Knowles, president of Hart Chemicals Ltd., Guelph; local teacher Susan Turner; Dan Hoornweg, waste management co-ordinator for the City of Guelph; and community activist Carole Milligan.

Liona Boyd in concert

Classical guitarist Liona Boyd will give a solo concert March 15 at 8 p.m. in War Memorial Hall. Boyd has been guest soloist with orchestras around the world, has recorded 13 albums and won four Juno awards as instrumental artist of the year. Tickets are \$14.50 to \$17 and are available at the University Centre box office, the Bookshelf, Sam the Record Man and The Corner in Stone Road Mall.

Noon-hour concert

The Department of Music's Thursday noon-hour concert March 2 features Britain's Allegri String Quartet, with Peter Carter and David Roth on violin, Patrick Ireland on viola and Bruno Schrecker on cello. The quartet has appeared in more than 25 countries and won a 1986 Juno Award for the recording "Stolen Gems." Program I at 12:10 p.m. in Room 107, MacKinnon building, will consist of "Death and the Maiden, String Quartet No. 14" by Frank Schubert. Program II at 1:10 p.m. will feature "String Quartet No. 3" by Benjamin Britten.

Science Noon

About 200 people attended the kick-off lecture in the 25th anniversary Science Noon series in February with guest speaker Prof. Keith Ronald, director of The Arboretum. Prof. Ron Subden, Microbiology, is the next speaker in the series, discussing "The Science of Reading a Wine Label" March 7 at noon in Peter Clark Hall.



MB&G STUDENT HONORED

Kellie Sanderson, centre, a fourth-year student in the Department of Molecular Biology and Genetics, recently received the Boehringer Mannheim Canada Scholarship. With her are Prof. Alan Wildeman, MB&G, left, and Graham Ed-

wards, sales representative of Boehringer Mannheim. The award is given biennially to the honors MB&G student with the highest cumulative average in semesters 1, 2, 3 and 4.

Photo by David Thomas, PRI

Coming events

WEDNESDAY, March 1

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Feminist and Christian, 10:10 a.m., UC 533; Ecumenical Holy Communion, 12:10 p.m., UC 533; Community Fellowship, 5 to 7 p.m., Chaplain's Lounge, UC Level 3; Immanuel Christian Fellowship, 5 to 7 p.m., 287 Water St.; Gospel Singing Group, 7 p.m., UC 444. Apiculture Club - Honey and Candle Sale, 9 a.m. to 5 p.m., UC courtyard.

Drama Seminar - "Informal Discussion of Approaches to Actor Training," Edward Argent, 9:30 a.m., Massey Hall 203.

Lecture - "The Creation of OAC," Gil Stelter, 10 a.m., War Memorial Hall, \$2.50.

Our Common Future - "Sustainable Development and Agriculture: Economics and Ethics," Vernon Thomas, Carole Giangrande and Glenn Fox, noon, UC 103; "Sustainable Development: Implications for Canada," John Jackson, Jeanine Ferreti and Carmen McClelland, 7:30 p.m., Arboretum Centre.

Dance - Northern Lights Dance Theatre, noon, UC courtyard.

Computing Seminar - "Desktop Publishing II — Apple/Mac Solutions," 12:05 p.m., Computing Services 204.

OVC Seminar - "Strategies for Enriching the Environment of Laboratory Rhesus Monkeys," Viktor Reinhardt, 12:10 p.m., Clinical Studies 1438.

THURSDAY, March 2

Schedule of Dates - Fortieth class day.

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Relationships: The Central Concern of Jesus, 4 p.m., UC 335; Exploration in Meditative Prayer, 5:10 p.m., UC 533; Social Evening, 6 to 9 p.m., UC 334/335.

Social Science Lecture - "Institutional Objectives in Higher Education: Is Harvard a Good University?" Alexander Asin, 9:30 a.m., UC 103.

Pathology Seminar - "Bacterial Gill Disease of Salmonids — A Description and Definition for the Disease in Ontario Hatcheries," V. Ostland, 11:10 a.m., Pathology 220.

Concert - Allegri String Quartet, 12:10 and 1:10 p.m., MacKinnon 107, free.

Rural Extension Studies Seminar - "She Dwelt Among the Untrodden Ways," Pauline Greenhill, 2:30 p.m., MacKinnon 227.

Exhibition - Viewpoints Opening, 8 p.m., Macdonald Stewart Art Centre.

FRIDAY, March 3

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 8:10 a.m., UC 533.

Social Science Lecture - "Defining and Measuring Educational Objectives: How Can Guelph's Programs be Improved?" Alexander Asin, 9:30 a.m., UC 103.

Systematics Seminar Series - "Patterns of Speciation at High Elevations in South America," Vicky Funk, 3:10 p.m., Animal Science 141.

Drama - *Woza Albert*, 8 p.m., Arboretum Centre, \$7.

SATURDAY, March 4

Continuing Education - "Perennials in the Garden," 9 a.m. to noon, register at Ext. 3956/7.

Exhibition - "Arnaud Maggs Number-works," noon to 5 p.m., Macdonald Stewart Art Centre.

Dinner Theatre - Theatre in the Trees, *I Ought to Be in Pictures*, 6:30 p.m., Arboretum Centre, \$29.50.

SUNDAY, March 5

Worship - Morning Worship Service, University Bible Studies, 9 a.m., UC 441; Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry, 8 p.m., UC 533.

The Arboretum - Sunday Afternoon Walk,

"Backyard Maple Syrup," 2 p.m., Nature Centre.

MONDAY, March 6

Schedule of Events - First day of preregistration period, in-course students.

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 5:10 p.m., UC 533.

Human Biology Seminar - "Renal Function: the Evolution of the Concepts," Jack Barclay, 12:10 p.m., Human Biology 108.

McLean Lecture - "The Long-Term Adequacy of Agricultural Land: A Different Perspective," Pierre Crosson, 8 p.m., MacLachlan 102.

TUESDAY, March 7

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 12:10 p.m., UC 533.

Science Noon - "The Science of Reading a Wine Label," Ron Subden, noon, Peter Clark Hall.

CSRC Workshop - "Healthy Relationships," noon UC 318.

Writing Workshop - "How to Write an Essay," noon, UC 335.

Our World - "Canada's Role in the International Arms Trade," 12:10 p.m., UC 441.

Social Science Lecture - "Motivation for Learning and Work," Edward Deci, 4 p.m., UC 103.

Panel Discussion - "The Well Woman," 7 p.m., register at Ext. 3245.

WEDNESDAY, March 8

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Feminist and Christian, 10:10 a.m., UC 533; Ecumenical Holy Communion, 12:10 p.m., UC 533; Immanuel Christian Fellowship, 5 to 7 p.m., 287 Water St.; Community Fellowship, 5 to 7 p.m., Chaplain's Lounge, UC Level 3; Gospel Singing Group, 7 p.m., UC 444; Computing Seminar - "How to Learn the 'C' Programming Language," 12:05 p.m., Computing Services 204.

OVC Seminar - "Pythiosis and Skin Disease of Horses in Tropical and Subtropical Countries," Leonel Mendoza, 12:10 p.m., Clinical Studies 1438.

Social Science Lectures - "Telephony and Geography," Ron Abler, 4 p.m., MacKinnon 116; "Current Changes in Soviet Society," Liparit Kiuzadjan, 8 p.m., MacNaughton 113.

University Achievers - Restaurateur Philip Chan, 5 p.m., UC 103.

Continuing Education - "Art for Amateurs and Connoisseurs," 7:30 p.m., six weeks, register at Ext. 3956/7.

CUSO - Information Meeting, 7:30 p.m., UC 442.

Our Common Future - "Sustainable Development: Implications for Guelph," Graham Knowles, Susan Turner, Dan Hoornweg and Carole Milligan, 7:30 p.m., Arboretum Centre.

Lecture - "Sexual Harassment in the Workplace," Benita Clark, 7:30 p.m., Peter Clark Hall.

THURSDAY, March 9

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Relationships: The Central Concern of Jesus, 4 p.m., UC 335; Exploration in Meditative Prayer, 5:10 p.m., UC 533; Social Evening, 6 to 9 p.m., UC 334/335; Lent and Holy Week Video Series - "The Milagro Beanfield War," 6:30 p.m., UC 533.

Lecture - "Glances Askance — Canadian Ironies," Linda Hutcheon, 11 a.m., MacKinnon 233.

Pathology Seminar - "The Vertical Transmission of *Renibacterium salmoninarum* in Hatchery-Reared Chinook Salmon," R.D. Armstrong, 1:10 a.m., Pathology 220.

Concert - Sylvia Perolux, classical guitar, 12:10 and 1:10 p.m., MacKinnon 107, free.

Art lecture - "Arnaud Maggs Number-

works," Arnaud Maggs, 3 p.m., Macdonald Stewart Art Centre.

Social Science Lecture - "Integration in Personality," Edward Deci, 4 p.m., UC 442.

FRIDAY, March 10

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 8:10 a.m., UC 533.

College Royal - Open House, 7 to 10 p.m.

Drama - *Terminal Bar*, 8 p.m., Massey Hall theatre, \$2.

SATURDAY, March 11

Continuing Education - "Vegetable Gardens," 9 a.m. to noon, register at Ext. 3956/7.

College Royal - Open House, 9 a.m. to 5 p.m.

The Arboretum - Maple Syrup Days, 9:30 a.m. to 3:30 p.m., Arboretum Nature Centre.

Dinner Theatre - Theatre in the Trees, *I Ought to Be in Pictures*, 6:30 p.m., Arboretum Centre, \$29.50.

Drama - *Alias*, 8 p.m., Massey Hall theatre, \$2.

SUNDAY, March 12

Worship - Morning Worship Service, University Bible Studies, 9 a.m., UC 441; Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry, 8 p.m., UC 533.

The Arboretum - Maple Syrup Days, 9:30 a.m. to 3:30 p.m., Arboretum Nature Centre.

College Royal - Open House, 11 a.m. to 5 p.m.

MONDAY, March 13

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 5:10 p.m., UC 533.

TUESDAY, March 14

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 12:10 p.m., UC 533.

Education watch

SFU introduces enrolment cap

Simon Fraser University will limit the number of full- and part-time undergraduate students to 11,500 — 1,200 below the number enrolled in the fall of 1988. The enrolment cap will be phased in over a three-year period. George Ivany, academic vice-president and chair of a task force on undergraduate enrolment, says a cap is essential to ensure that the institution delivers quality instruction. Enrolment restrictions will remain in place until additional resources are made available and until the university's operating grant support reflects actual needs, says the task force report.

University of Saskatchewan needs \$5.7 million

A University of Saskatchewan task force on accessibility estimates the university needs a \$5.7-million increase in its annual operating budget to accommodate current enrolment levels. To bring enrolments back to the level they were prior to the impositions of quotas in 1987 would require a further \$4.8 million, the task force says. It also states that 30 per cent of Saskatchewan's working age population should be receiving a university education, and that U of S would have to accept 500 more first-year students annually to reach this target.

Centre for Soviet studies

The University of Waterloo and Wilfrid Laurier University have received a \$225,000 grant from the Department of National Defence to establish a joint centre for Soviet studies. The universities are providing \$50,000 each. Part of the money will serve to establish a visiting professorship in Soviet strategic studies.

A franco-Ontarian university?

Ontario should establish a university network offering programs and services in French, administered by francophones, according to the Council of Franco-Ontarian Education. The council's master plan for franco-Ontarian education, submitted in January to the ministers of education and colleges and universities, calls for an assistant deputy minister of francophone affairs at MCU and an independent council to oversee the administration of French-language university programs. Representatives of the council would serve as ex-officio members of the Ontario Council on University Affairs. The plan also recommends the establishment of a francophone distance education network and new programs to encourage franco-Ontarian participation in university education. Council president Marc Godbout says there is a clear message in the plan that if existing universities cannot meet the needs of francophones, "the only possible alternative is the creation of a franco-Ontarian university." The *Plan directeur de l'éducation franco-ontarienne* is available from the council, 880 Bay St., Suite 203, Toronto M7A 1L2, telephone 416-963-1125.

Visiting professor

Dr. Edward Deci of the University of Rochester is Winegard visiting professor in the Department of Psychology March 6 to 10.

Deci's work in the area of human motivation, particularly dealing with the effects of incentives on intrinsic motivation, has been applied broadly in many diverse settings, including schools, industry and public organizations. The author of three books in the area of self-determination and intrinsic motivation, he has served as a consultant to numerous school districts, boards of education, corporations and training institutes in the United States and Japan.

While at Guelph, Deci will give informal talks in the Department of Psychology and two public lectures. On March 7, he will discuss "Motivation for Learning and Work" at 4 p.m. in Room 103, University Centre. On March 9, his topic is "Integration in Personality" at 4 p.m. in Room 442, University Centre.



Dr. Alexander Podmasko, an assistant professor in the faculty of refrigeration at the Odessa Technological Institute of Refrigeration Industry, is a visiting professor under the Canada-U.S.S.R. exchange program until May 15.

He is working with Prof. Gauri Mittal, School of Engineering, and Prof. Ron Usborne, Animal and Poultry Science, on beef carcass chilling. He is located in Room 227, Thombrough building, Ext. 3642. O

Personnel report

Appointments

Prof. Donald Grivic became chair of the Department of Animal and Poultry Science Feb. 7. He will serve a five-year term.

Vernon Porter has changed employment from buyer in Purchasing to transportation and surplus co-ordinator in Administrative Services.

Diane O'Brian of Guelph has joined Computing Services as analyst. She is on a contractually limited appointment that continues to February 1990.

Job opportunities

As of *At Guelph* deadline Feb. 24, 1989, the following opportunities were available:

Administrative Clerk, Veterinary Teaching Hospital. Salary range: \$320.11 minimum; \$369.95 job rate (level 5); \$460.78 maximum.

Secretary II, Chemistry and Biochemistry. Salary range: \$320.11 minimum; \$369.95 job rate (level 5); \$460.78 maximum.

Agricultural Assistant, OVC Associate Dean's Office — Eranota Research Station. Salary range: \$431.35 start; \$455.05 six-month rate; \$475.53 one-year job rate. **Secretary I, Mathematics and Statistics;** temporary part-time. Normal hiring range: \$291.86 to \$317.13 a week (pro-rated).

The following positions were available to on-campus employees only:

Transcript/Records Clerk, Office of the Registrar. Salary range: \$291.86 minimum; \$338.48 job rate (level 5); \$406.26 maximum.

Secretary I, Veterinary Microbiology and Immunology. Salary range: \$291.86 minimum; \$338.48 job rate (level 5); \$406.26 maximum.

Classroom Technician, Technical Operations. Salary range: \$372.63 minimum; \$430.51 job rate (level 5); \$534.57 maximum.

Agricultural Assistant, OVC. Salary range: \$431.35 start; \$455.05 six-month rate; \$475.53 one-year job rate.

Buyer, Purchasing. Salary range: \$493.33 minimum; \$571.42 job rate (level 5); \$709.59 maximum.

It is the University's policy to give prior consideration to on-campus applicants. To determine the availability of University employment opportunities, contact employment services and training, Level 5, University Centre, or telephone 836-4900.

Personals

For Sale: 1984 Mercury Lynx wagon, four-door, four-speed, front wheel drive, 112,000 km, certified, Ext. 6683 or 836-6758. Environmentally friendly, form-fitting, no-pin cotton diapers, 843-2918. Fifty-seven acres near Wiarton, close to Lake Huron and Red Bay, can be divided into lots, 821-5962 after 5 p.m. or 1-364-3738. 1986 Chevrolet Cavalier, two-door, five-speed standard, AM/FM radio, tilt wheel, pulse wipers, 70,000 km, certified, 836-3469. Atari 2600, joystick, 13 games, 822-2469 evenings. Riding hat, size 7 1/4, Ext. 2965 or 821-5502. Two snow tires, P205/75R14 with rims and two Michelin P195/75R14X steel-belted radial summer tires, Ext. 8728 or 836-7414. Ladies' French provincial writing desk with matching upholstered cane back chair, 822-4985 after 5 p.m. Inside wooden door, rollaway cot, TV tables with stand, Quick electric grill, aluminum stock pot, 822-3129. Couch/tuton bed, hardwood with drawers and brass fittings; tall young man's three-piece tweed suit; Toastmaster System III oven, David, 763-5891 after 7:30 p.m. Available: Typing, Pat, 821-5502. Experienced secretary to do typing using WordPerfect, Brenda, 822-8342.

For Rent: Three-bedroom newly redecorated unfurnished house, potential income from finished basement with bath, available now, Ext. 2662 or 823-5818. Room available April 1, \$225 a month inclusive, Terry, Ext. 8748. Three-bedroom furnished faculty home in University area, available Sept. 1 to Aug. 1, 1990, Ext. 3973 or 821-3833. Newly decorated, spacious one-bedroom apartment with study and porch, \$625 including heat and hydro, available March 1, Ext. 6042 or 763-5976 after 5:15 p.m. Fully equipped two-bedroom cottage and cabin at Sauble Beach, three-minute walk to beach, 821-5962 after 5 p.m. Two-bedroom cottage at Sauble Beach, one block from beach, responsible people only, 837-3616.

Thank You: To all U of G employees who have participated in our survey on job satisfaction, Prof. Steven Cronshaw and project leaders Paul Van Katwyk and Chuck Evans, Psychology.

"Personals" is a free service offered by *At Guelph* for staff, faculty and students at the University. All items must be typed, double spaced, and submitted to *At Guelph* one week before publication.

In touch

Liaison officers from the Admissions Office recently visited schools in southwestern Ontario and spoke with students from Windsor, Sarnia, London, Leamington and Kingsville. In central Ontario, they spoke with students at schools in Brantford, Cambridge, Guelph, Oakville, Mississauga and York region.

During these spring visits, liaison officers speak not only about U of G programs and services, but also about trans-

ition issues that affect all university-bound students. A new publication has been produced specifically for these visits. It is called "How to Prepare for the University Experience" and was written by Katherine Elliott of the Counselling and Student Resource Centre and Chuck Cunningham, assistant registrar, liaison.

If you would like a copy, drop by the Admissions Office on Level 3 of the University Centre. O

Faculty activities

Prof. David Douglas, director of the University School of Rural Planning and Development, conducted a one-day workshop for officials of the Ontario Ministry of Industry, Trade and Technology recently. Fifty senior business consultants attended the workshop, designed to help them reorient their roles from industrial

location consultants to community economic development counsellors.

Profs. George Penfold, Tony Fuller and David Douglas, University School of Rural Planning and Development, participated in the recent OAC annual conference. They gave a workshop on "Changing Rural Society — Trends, Opportunities and Challenges." O

Obituary

Donald Nelson

The University community was saddened to hear of the death of one of its retirees — Dr. Donald Gordon Nelson, former

head of Medical Services.

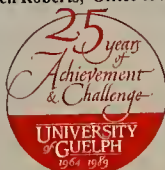
Dr. Nelson, who joined the University in 1970 and retired in 1982, died Feb. 22. He is survived by one daughter, Vicki Little of St. Catharines. O



by Owen Roberts, Office of Research

Cover:

They're not on grocery store shelves yet, but Department of Horticultural Science technician Janet Vliegenthart is tasting a potential new snack food product — sweet potato chips. (See story, page 5.)



Inside:

\$1M for conservation bureau	1
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\$1 million for conservation bureau

U of G will be home to the Soil and Water Conservation Information Bureau, with the help of a \$1-million contribution from Agriculture Canada. The bureau will provide a focal point for a network of experts helping farmers obtain information and technical advice.

The bureau is part of the Soil and Water Environmental Enhancement Program (SWEEP), a \$30-million federal-provincial agreement designed to improve water and soil quality in southwestern Ontario.

President Brian Segal signed a funding agreement on campus March 3 with Bill

Winegard, minister of state for science and technology and former U of G president, who signed on behalf of the federal minister of agriculture, Don Mazankowski.

"The new bureau will be responsible for getting information about soil and water conservation methods to farm advisers, farm groups and others in the agri-food business," said Winegard.

The bureau will operate in conjunction with the Centre for Soil and Water Conservation, under the centre's director, Prof. Murray Miller, Land Resource Science. "The bureau

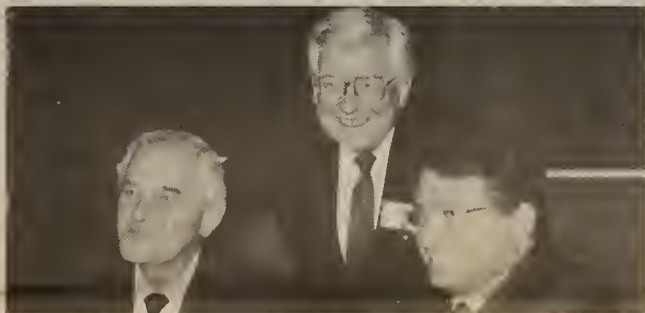
will play a key role in addressing problems in soil erosion," said Miller.

The funding agreement provides \$1 million over five years for start-up costs, staff and day-to-day operations. The bureau's activities will include establishment of a computer network to keep track of work undertaken in other areas that may apply to Ontario conditions. It is intended to complement existing advisory services provided by the provincial government.

"The information bureau will collect, interpret and make available the results of conser-

vation research conducted in Ontario, elsewhere in North America and in other countries," said Dean of Research Larry Milligan.

U of G will administer the bureau under an agreement with Agriculture Canada. An advisory committee, with representatives from Agriculture Canada, the Ontario Ministry of Agriculture and Food, farmers, agri-business and the University, will guide the operation of the bureau. O



CONSERVATION BUREAU

U of G will be headquarters for a conservation bureau, thanks to a \$1-million Agriculture Canada agreement signed March 3 by MP Bill Winegard, minister of

state for science and technology, left, and President Brian Segal, right. Looking on is Clay Switzer, deputy minister of the Ontario Ministry of Agriculture and Food.

Photo by David Thomas, PRL

Comments wanted on Gordon Street

The Gordon Street Corridor Task Force wants to know what members of the University community think about the future of Gordon Street.

"It's clear that Gordon Street is in need of extensive repairs," says Prof. Fred Vaughan, Political Studies, chair of the task force. "It's also clear that whatever is done will affect the life of the University and the community far into the future. This means that all members of the University — staff, students and faculty — should make their views known."

Engineering studies indicate that there are three options available in addition to resurfacing and repairing the existing road, says Vaughan. The options shown on the accompanying map contain the range of alternatives.

Option A would divert traffic behind the Equine Research Centre from Stone Road to

College Avenue. This would allow the city to close Gordon Street between College and Stone to through traffic.

Option B would permit the widening of Gordon Street to four lanes from Wellington Street to Stone Road. Option C, like A, would block off Gordon Street through the University and divert traffic to Victoria and Edinburgh roads. Option C could be combined with option A.

The task force would like to hear comments from members of the University community about the above options. Send them to Mollie McDuffie, University Secretariat, Level 4, University Centre, by March 17.

A public hearing about the future of Gordon Street will be held later this month. Watch future issues of *At Guelph* for details. O

Welcome to College Royal!

Friday, March 10

7 a.m.	Interecollegiate Judging Competition	Athletics Centre Arena
5:30 p.m.	Dog Show	Athletics Centre Arena
9 a.m. to 5 p.m.	Flower Arranging Competition	Horticulture 124
6:30 to 9:30 p.m.	Curtain Call	War Memorial Hall
7:30 p.m.	Juried Art Show Reception	Zavitz Hall

Saturday, March 11

9 a.m. to 5 p.m.	OPEN HOUSE	Across Campus
9 a.m. to 5 p.m.	OTS Petting Zoo	OVC Ward 6
9 a.m. to 5 p.m.	Flower Arranging Display	Horticulture 124
9 a.m. to 5 p.m.	Juried Art Show	Library
9 a.m. to 5 p.m.	Language Lab	MacKinnon 019
9 a.m. to 5 p.m.	Seed and Forage Show Display	Crop Science 121
9 a.m. to 5 p.m.	Horticulture Greenhouse Tours	Greenhouses
10 a.m. to noon	Alumni Tours	Alumni House
and 2 to 4 p.m.		
10 a.m., 1 & 3 p.m.	Chemistry Magic Show	Chemistry 200
10 a.m., 12, 2 & 4 p.m.	Treadmill Demo	Human Biology 207, 209
10 a.m., 12 & 3:15 p.m.	Medieval Tournament	Athletics Centre
11 a.m.	Performing Dance Group	Athletics Centre
11 a.m. to 5 p.m.	Old MacDonald's Farm	Old Dairy Barn
11 a.m., 1 & 3 p.m.	Live Animal Surgery	OVC 642, 631, 508
11 a.m., 2 & 4 p.m.	Wild Bird Clinic demonstrations	OVC Sunken Lounge
11 a.m. to 4 p.m.	Livestock Show	Athletics Centre
11:30 a.m., 1:30 & 3:30 p.m.	Fashion Show	Peter Clark Hall, UC
11:30 a.m. to 3:30 p.m.	HAFA Restaurant	HAFA Building
12 & 4 p.m.	Wild Bird Clinic demonstrations	OVC Sunken Lounge
	Exam and bandaging demo	Pathology 143
12 to 5 p.m.	Jazarus	University Centre 103
1 p.m.	Square Dance Compulsory	Athletics Centre
1 & 3 p.m.	Wild Bird Slide Show	OVC 1296

2 to 5 p.m.	Cat Show	MacNaughton 105
2:30 p.m.	Horse Club demonstration	Livestock Pavilion
11 a.m. to 5 p.m.	Welcoming Address	Athletics Centre Main Gym
3:15 p.m.	HAFA Restaurant	HAFA Building
4:30 to 8 p.m.	Curtain Call	War Memorial Hall
7:30 p.m.	Square Dance Optionals	Athletics Centre

Sunday, March 12

11 a.m. to 5 p.m.	Open House	Across Campus
11 a.m. to 5 p.m.	Woodsmen's Competition	Johnston Green
11 a.m. to 5 p.m.	Seed and Forage Show	Crop Science 121
11 a.m. to 5 p.m.	Old MacDonald's Farm	Old Dairy Barn
11 a.m., 1 & 3 p.m.	Live Animal Surgery	OVC 642, 631, 508
11 a.m. to 4 p.m.	OTS Petting Zoo	OVC Ward 6
11 a.m. to 5 p.m.	Flower Arranging Display	Horticulture 124
11 a.m. to 5 p.m.	Juried Art Show	Library
11 a.m., 2 & 4 p.m.	Wild Bird Clinic demonstration	OVC Sunken Lounge
11 a.m. to 5 p.m.	Language Lab	MacKinnon 019
11:30 a.m. to 3:30 p.m.	HAFA Restaurant	HAFA Building
11:30 a.m., 1:30 & 3:30 p.m.	Fashion Show	Peter Clark Hall
Noon	Ninjitsu demonstration	Athletics Small Gym
12, 4 p.m.	Wild Bird Clinic demonstration	OVC Sunken Lounge
Noon to 5 p.m.	Jazarus	UC 103
12:30 p.m.	Boat Building Competition	Engineering
1 & 3 p.m.	Wild Bird Slide Show	OVC 1296
1 & 3 p.m.	Chemistry Magic Show	Chemistry 200
1 p.m.	Alumni Square Dance Competition	Athletics Centre
1 p.m.	Tractor Pull	Engineering 112A & B
2 to 5 p.m.	Cat Show	MacNaughton 105
2 to 4 p.m.	Alumni Tours	Alumni House
2 p.m.	Talentfest	War Memorial Hall
2 p.m.	Bridge Building Competition	Engineering 112A & B
2:30 p.m.	Horseman's Club demonstration	Livestock Pavilion

Letters to the editor

Fine Art chair clarifies issues

I wish to correct several misunderstandings about the Department of Fine Art reported in "Internal Reviews Show Departments Where They Are Going" in the Feb. 15 issue of *At Guelph*.

The article says that I stated that the internal review moved "the department towards more of a studio focus, rather than theory and art history." This is patently inaccurate. As I wrote recently in catalogue notes for the U of G fine art graduates exhibition at the Macdonald Stewart Art Centre, "curriculum of the BA degree in fine art requires the serious study of art history and studio."

At a department retreat in early January, the faculty affirmed that our degree program in fine art should continue to "integrate the study of art history and studio" as well as to endorse the diversity of intellectual possibilities that historical study and creative endeavors provide.

Consistent with these goals, we are currently taking steps to improve our overall curriculum, including greater attention to developmental sequences in our studio courses. But it must also be noted that we have no intention of downgrading art history and theory offerings. In fact, we have not only been seeking ways to strengthen our art history curriculum but we have recently proposed an entirely new course, "Introduction to Art Theory and Criticism." To my knowledge, this would be the first formal course solely devoted to art theory and criticism offered in this department.

I must also correct another misunderstanding — that I have a greater studio background than that previous chair. Because the distinguished artist, critic and scholar Eric Cameron,

who was chair of the Department of Fine Art in the 1970s, is a good friend and colleague of mine at the Nova Scotia College of Art and Design, it is quite evident that I would never have made such a claim. In addition, the founding chair, the late professor Gordon Coudling, was also a serious artist as well as a scholar.

And on another matter, my quoted remarks about Zavitz Hall are taken out of context. The point I was trying to make was that the University has done little to maintain Zavitz Hall and seems to have intentionally neglected the physical needs of the Department of Fine Art. The renovation study for Zavitz Hall that is currently being developed is a welcome step toward providing suitable and safe facilities for this department.

In "Letters to the Editor" in the same issue of *At Guelph*, Prof. Victor Chanasyk has gone to some length to praise the University plan of the early 1960s and to call for absolute adherence to its design principles. He fails to acknowledge that significant critical opinion reflects a rethinking of certain social and esthetic assumptions embodied in this plan.

Many of today's most sensitive and well-informed artists and architects, and other concerned citizens, understand that public art — and particularly architecture — must respect social, esthetic and historic continuity. It has become increasingly evident to many of us that truly innovative and responsible environmental design is most successful when it is able to accommodate diverse cultural viewpoints and changing socio-political values.

I believe that there are two distinct issues at state in the proposed renovation of Zavitz Hall. The first issue is that Chanasyk apparently views the carrying out of each aspect of the early University plan as necessary, regardless of changing circumstances and the very real possibility that the initial plan did not account for all of the needs of this dynamic University community.

I am somewhat surprised by his extravagant claims that Branon Plaza has the "potential to be one of Canada's great architectural spaces." I suggest that most of the buildings that surround the plaza are as dated in their own way as any other older buildings on campus, including Zavitz Hall. I am certain that both sides of this planning issue could find prominent authorities to give credibility to either view.

On an intellectual level, such debate might be truly useful toward helping the University community to understand how and why the physical environment on campus exists in its current form.

But for me, as chair of the Department of Fine Art, the most crucial issue is that this department must obtain in the very near future a suitable, safe educational facility. The sad current condition of Zavitz Hall is material evidence of the shoddy treatment that the Department of Fine Art has received by past administrations, in relation to its teaching facilities over many decades.

The utter neglect of Zavitz Hall demonstrates not that the building is without merit, but that the Department of Fine Art has been of little interest to past administrations,

despite the respectable achievements of our students and the important contributions to Canadian culture by our faculty. The inadequate, even potentially dangerous, state of the building has reached a point that is deleterious to our educational programs and to overall department morale.

I am disheartened that Chanasyk does not even mention the needs of the Department of Fine Art in his correspondence. Given the ongoing relationship of this department to the students of the School of Landscape Architecture, I would have expected that a responsible and sensitive colleague in a related discipline would have expressed some concern about our immediate requirements, regardless of his convictions about the University plan devised more than a century ago.

Further exchanges of letters would not serve the needs of the overall University community, nor the essential requirements of the Department of Fine Art for a more adequate building. Members of the Department of Fine Art on the Zavitz Hall renovation committee would be delighted to discuss these issues with Chanasyk or any other interested parties.

I trust that the current renovation study will proceed on schedule and will offer additional points of deliberation for the future of Zavitz Hall and as the physical home for the Department of Fine Art. I am confident that reasoned analysis and balanced judgment will settle the debate.

Prof. Ron Shuebrook,
Chair, Department of Fine Art.

Forum

Sulawesi debater overlooks documented facts

In his most recent justification of the University's multi-million-dollar contract to provide "technical assistance" at "institution strengthening" to the Suharto regime of Indonesia (*At Guelph* Feb. 15), Prof. Hans Bakker continues to studiously ignore documented facts: the Indonesia regime's murder of an estimated 850,000 to 1,250,000 persons; its torture of political prisoners; its imprisonment of people for up to 25 years for reading banned leaflets in public; its pervasive and self-enriching leadership corruption; its massive destruction of tropical forests; and its continual genocidal attacks on indigenous populations.

Bakker's "scholarly standards" would even disallow the "sweeping" term "military dictatorship" to be used, even though president and former general Suharto appoints 100 army officers to the house of representatives and all 500 members of the consultative assembly (who have re-elected him to his fifth term in office since 1965, when he led the illegal seizure of the country by a violent military coup), even though in 1987, 15 of 37 of the country's ministers, half of its ambassadors and more than two-thirds of its regional governors were current or retired military officers, and even though the respected journal *Human Rights Watch* describes the "new order" government of Indonesia as "an extensive web of formal restraints on political activity and speech, enforced by a military apparatus that spreads across the vast archipelago down to the village level" (No. 4, October/November 1988).

Among the international human rights bodies that have published factual reports on the Indonesia regime's violations of human rights and crimes under international law are Amnesty International, Asia Watch Report and the Canada-Asia Working Group, which represents the United, Anglican and Presbyterian churches of Canada, the Canadian Catholic Organization for Development and Peace, the Canadian Friends Service Committee and other organizations.

The Asia-Watch Report's recent 348-page report, *Human Rights in Indonesia and East Timor*, compiled by Diane Orendlicher, is currently the most comprehensive. *The Ecologist* (May 1986), in collaboration with Survival International, gives one of the best reports available on the government's transmigration schemes (in which Sulawesi is involved), and the vast destruction of tropical rain forests

these have involved.

Indonesian human rights bodies operating outside the country have also published reports of the Suharto government's gross and continual violations of human rights, the most notable of these being the *Tapol* (Political Prisoner) Bulletin.

Even the officially tolerated *Human Rights Forum*, prepared by the Indonesian Legal Aid Foundation, acknowledges in its restricted circulation quarterly that the "government ideology of *Pancasila* is... the (nation's) sole basic principle" and requires "unanimity" of support from its citizens, whereas the "responsibility of solving the people's problems in all aspects of life, such as the social, the economic and the political aspects, is centralized in the hands of the government and the ruling elite" (*Human Rights Forum*, No. 8, 1986).

The murder of at least 600,000 people in the Suharto regime's original military seizure of power in 1965 and more than 200,000 people since on the illegally invaded tiny island of East Timor is recognized by even the CIA, which supported both. Indeed, the general picture of a totalitarian military dictatorship ruling by mass terror, bloodshed, official corruption, repression of civil rights and radical depletion of natural resources emerges from even the sedate and certainly non-alarmist *National Geographic* (January 1989).

Bakker, however, has cultivated a tactic to overlook these hard facts, an "ethic of responsibility." He puts aside facts for which the evidence is overwhelming, makes allegations of error in the report of these facts, never substantiates the allegations he has made and then proceeds as if his case is made. These may be acceptable propaganda ploys for the defence of *Pancasila* in Indonesia, but they are not acceptable in a Canadian university.

Faculty in the University whose careers are involved in varying extents in providing technical assistance to the Indonesian government to impose its policies will, at some time, have to face up to the nature and record of the military dictatorship they support and assist.

The problem is that they point to things they do not do and one could agree with — putting roofs over people's heads, providing water and food for Indonesian families, and so on, to justify their involvement. Or they refer to graduate research projects that do not refute a jot of the evidence raised. Or they refer the issue to Canada's own crimes in dealing with

her native peoples. Or they emphasize small-fractional operations of the Sulawesi project as representative of the whole. This repertoire of what logicians know as fallacies seems to have no end. Multi-million-dollar contracts generate their own logic.

I think the way out is to recognize the facts and not avoid them as "blunt instruments." To project the violent methods of the regime one defends onto those who point it out is only another fallacy.

I would like, finally, to suggest that the "ultimate values" Bakker charges me with do have a place in our lives. No one on this campus would ever intend, I trust, to kill hundreds of thousands of people for being Chinese or East Timorese or in suspected opposition to their rule, as the Suharto government of Indonesia has done. Ultimate values rule out such actions, or should.

The University has ultimate values that are more stringent. By the University of Guelph Act, it is bound by two overriding principles: "the advancement of learning and dissemination of knowledge" and "the intellectual, social, moral and physical development of its members and the betterment of society."

How, then, can the University provide "technical assistance" in "institution strengthening" — the terms the project itself uses to describe its work — to a government that is not only in gross and systematic violation of the human rights of its citizens, but explicitly requires by recent law that even assisting agencies from abroad conform to the government's ideology of *Pancasila* as their sole basic principle?

This law, whose objective Bakker appears to accept, is in addition to the anti-subversion law, which grants *Kopkamtib*, the military security agency, unlimited discretionary powers to arrest or shoot anyone who opposes the regime or its doctrine in the territory ruled by the government. How can such a context fail to contradict the University's own constitutional objectives?

Unlike the some-time and permanent members of the Sulawesi project, I do not think the answer to this question is to carry on as if there is no such question or problem, and to advertise nationally for highly paid new positions towards an expanded contract of administrative assistance to the government of Indonesia.

Prof. John McMurtry,
Philosophy.

At Guelph

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Winegard presents Canada Scholarships

Seventy-eight U of G students enrolled in science- and technology-related disciplines were presented with Canada Scholarships March 3 by MP Bill Winegard, minister of state for science and technology, at a reception on campus.

The award winners were presented with certificates and pins and were personally congratulated by Winegard, President Brian Segal, college deans and other faculty and staff members.

Awarded on the basis of academic performance, the scholarships are among 2,500 that have been presented in the inaugural year of the Canada Scholarships program. The students will receive up to \$8,000 over four years as they pursue degrees in science, engineering and related disciplines.

More than half the scholarships are being awarded to women, who have traditionally been under-represented in these areas of study.

The program was announced by Prime Minister Brian Mulroney last January at the National Conference on Technology and Innovation, as part of an additional \$1.3 billion being assigned to science and technology over the next five years.

"The Canada Scholarships program will play an important role in the federal government's long-term commitment to

develop our nation's capacities in the fields of science and technology," said Winegard. "And it will help to build educational resources to make Canada more competitive on an international scale."

Through the benefits of the scholarship program, these award-winning students will help fill the pressing need for highly qualified personnel in industry, universities and government, he said.

Scholarship winners in OAC are Lisa Bye of Alma, Glen Harris of Lindsay, Stephen Miller of Cambridge, William Whiting of Parkhill, John Young of Wyoming and Stephen Fraser of Scarborough.

Winners in CBS are Sarah Allan of Burlington, Frank Amstaetter of Acton, Beatrix Beisner of Ottawa, Cassandra Birk of Sydney, N.S., Shawn Bruch of Woodstock, Carolee Carson of Pembroke, Susan Chancy of Mississauga, Denise Crawford of Brampton, Cheryl Davies of Markham, Crystal Drummond of Peterborough, Lori Dykeman of Cambridge, Michel Gravel of Fauquier, Christine Harmon of Tillsonburg, Scott Hickey of Sudbury, Cheryl Hoover of Hagersville, Joanne Kennedy of Welland, Shannee Kennedy of London, Kara Lefevre of Mississauga, Joost Loijens of Nepean, Lynn Marshall of Tilbury, Mandy McCorquodale of Sudbury, Stephen Misener of Stratford, Karen Mossman of Kitchener, Caedmon Nash of Guelph, Heather Nix of Stevensville, Elizabeth Nixon of Hagersville, Linda Pietrelli of Port Colborne, Jean-Paul Purdy of Branford, Christopher Robinson of Bolton, Deborah Robinson of Mississauga, Mark Rodford of Oakville, Marc Roy of Ottawa, Karen Shearer of Buckhorn, John Snider of Cambridge, Maria Spinazze of Sault Ste. Marie, Gregory Staines of Thornhill, Mark Tandan of Hamilton, Elizabeth Walker of Kingston, Brian Wickenheiser of Stratford, Robert Wickett of Oldcastle and Elizabeth Wolters of Mount Elgin.

CPS winners are Paul Arnold of Burlington, Katherine and Sandra Bateman of Pickering, Scott Braithwaite of Windsor, Jennifer Brokenshire of Burlington, David Carson of Sharon, Savita Chaudhari of Peterborough, Michelle DeLongue of St. Catharines, Terina Dickinson of Owen Sound, Katrina Falconi of North Bay, Christine Fehner of Mississauga, Niall Ferguson and Karen Harris of Guelph, Rodney Harrison of Capreol, Ursula Kuc of Thornhill, John Mac Neil of Brechin, Victor Ng Thow Hing of Scarborough, Heather McGregor of Becton, Denise Miedema of Cloynce, Maury Pisk of Winnipeg, Laurel Schaefer of Shakespeare, Steven Sfiligoi of South Porcupine, Finnegan Southey of Guelph, Michael Summerfield of Dunnville, Lorraine Van Wingerden of Niagara-on-the-Lake, Taisto Viinikka of Ajax, Evelyn Voura of Caledon, Roger Woodward of Cobourg and June Yakubowski of Kirkland Lake. O



MP Bill Winegard, left, and President Brian Segal, right, congratulate Canada Scholarship winners Kara Lefevre, CBS, and John MacNeil, CPS.

Photo by Herb Rauscher, Photographic Services

Physics, Engineering host distinguished lecturers

The Guelph-Waterloo Program for Graduate Work in Physics and the School of Engineering are hosting a distinguished lecturer program March 14 in Room 113, MacNaughton building.

The program begins at 4:10 p.m. with Prof. Robert Greenler of the department of physics at the University of Wisconsin at Milwaukee discussing "Sunlight, Ice Crystals and Sky Archeology."

A fellow of the Optical Society of America and the American Association for the Advancement of Science, Greenler was the 1988 recipient of the Millikan Lecture Award, presented by the American Association of Physics Teachers for "notable and creative contributions to the teaching of physics."

The evening session begins at 7:30 p.m. with Alvin Weinberg, a distinguished fellow at the Institute for Energy Analysis, Oak Ridge

Associated Universities, discussing "Energy and the Environment."

Weinberg was a member of the war-time team in Chicago that developed the first nuclear chain reactors and served as director of the Oak Ridge National Laboratory from 1948 to 1973. He was director of the Office of Energy Research and Development in the White House in 1974 and director of the Institute for Energy Analysis from 1975 to 1985.

For his contributions to the development of nuclear energy, Weinberg has received a number of awards, including the Enrico Fermi Award and the Atoms for Peace Award.

Between the two talks, there will be a mixer at 5:30 p.m. and an Italian buffet at 6 p.m. in Room 442, University Centre. Cost of the buffet is \$5 general, \$3 for graduate students. RSVP by March 9 to Peggy Coghlan at Ext. 3023 or Reggie Vallilée at Ext. 2262. O

Student senators elected

Elections were held Feb. 21 for students to serve on Senate for the term Sept. 1, 1989, to Aug. 31, 1990.

Five students were elected to represent the BA program: Kathryn Airey, Jim Galatianos, Shawn Lucas, Wendy McGuire and Judith Murray. Pamela Shantz and Patrick Van Haren will represent the B.Sc.(Agr.) program, Rob Atterton the B.Sc.(H.K.) program and Nancy Charlton the DVM program.

For the B.Sc. program, David Hetmanek, Darryl Huard, Natalie Trisch and Mark Ventresca won by acclamation. Jerry Grabec and Lynn Snowden were acclaimed to represent the B.A.Sc. program, as was Marshall Bader for the general studies program.

There is still one vacancy each for the B.Sc., general studies, B.A.Sc., B.Sc.(Eng.), B.A. and associate diploma programs.

Among graduate students, Janice Bailey of OAC won by acclamation, as did Ted Milliner, College of Arts, and Heidi Witt, FACS. There are still vacancies for OVC, USRPD, CPS, CBS and CSS.

Students interested in filling any of the vacancies should apply to the University Secretariat, Level 4, University Centre. O

Promotion and tenure

The following faculty have been promoted or have received tenure. The names were presented in a report to Board of Governors Feb. 23.

CPS: Promotion — associate to professor, Bob Chapman and John Hubert, Mathematics and Statistics; and Richard Oakley, Chemistry and Biochemistry; assistant to associate, Amelia Fong-Lochovsky, Computing and Information Science.

CBS: Promotion — associate to professor, Jim Bogart and John Roff, Zoology; assistant to associate, Bill Bettger, Nutritional Sciences; and Peter Krell, Microbiology. Tenure — Alan Wildeman, Molecular Biology and Genetics.

FACS: Promotion — associate to professor, John Liefeld, Consumer Studies; assistant to associate, Kathleen Brophy, Family Studies; John Powers, Hotel and Food Administration; Victor Roth, Anne Wilcock and John Auld, Consumer Studies. Tenure — Leon Kuczynski, Family Studies.

CSS: Promotion — associate to professor, Nora Cebotarev, Sociology & Anthropology; assistant to associate, Hans Bakker, Sociology & Anthropology; and Steven Cronshaw, Psychology. Tenure — Ron Hinch, Sociology & Anthropology.

OAC: Promotion — associate to professor, Narinder Kaushik, Environmental Biology; Bryan Kakuda and Rick Yada, Food Science; Ramesh Rudra, School of Engineering; and Donald Reid, University School of Rural Planning and Development. Tenure — Ball; Pauls; Ellen Goddard, Agricultural Economics and Business; Andrew Gordon, Environmental Biology; Saush Negi, School of Engineering; Vem Shattuck, Horticultural Science; and Ray McBride, Land Resource Science.

Arts: Promotion — associate to professor, Leonard Adams, Languages and Literatures; and Neil Carson, English Language and Literature; assistant to associate, Donna Andrew, History. Tenure — Gunnar Bochner, History; Alan Filewod, Drama; and Jeffrey Mischering, Philosophy.

OVC: Promotion — associate to professor, Alan Meek, Population Medicine; assistant to associate, Doris Dyson and Michael Livesey, Clinical Studies; Wayne Ehrlington, Population Medicine; and Ken Fisher, Biomedical Sciences. Tenure — Dyson, Ken Bateman and Paula Menzies, Population Medicine; Mark Hurlig, Laurent Veil and Craig Miller, Clinical Studies; and Tanya Stirtzinger, Pathology. O

Workshop on bioassay

What is the impact of particular chemicals on human, plant and animal life? How can potency be measured? How is toxicity determined? What is the role of statistics in determining product safety?

Bioassay is the branch of biostatistics in which procedures are developed for examining the effects of agents or stimuli on human, animal or plant subjects. "Bioassay: A Statistical Point of View" is a workshop for researchers in pharmacology, agriculture, human and aquatic toxicology, biotechnology and medicine, to be offered on campus April 17 to 20.

This workshop will deal with recent developments in bioassay and will be of particular interest to researchers who design, conduct and analyse studies in their particular fields.

Workshop leader Prof. John Hubert, Mathematics and Statistics, will provide a new approach to research, in language that is accessible to scientists and non-scientists alike.

For more information, call Continuing Education at Ext. 3956. O

The University Centre, Skarratt Promotions and Canon present
**An Evening With
LIONA BOYD**



**ENCORE! A Solo Guitar Performance
Wednesday, March 15, 1989
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Tickets: \$14.00 - \$16.50

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Galbraith ups commitment to economics scholarship

World-renowned economist John Kenneth Galbraith, OAC '31, professor emeritus at Harvard University and former U.S. ambassador to India, has increased his contribution to U of G by endowing the economics scholarship he established in 1968. The scholarship now provides \$500 a year in perpetuity.

The John Kenneth Galbraith Scholarship in Economics was the first named scholarship awarded to the University's economics program. It is given on the basis of academic achievement to a student registered in the seventh semester of an honors program in economics. It focuses particularly on courses in economics, mathematics and statistics.

Ontario-born Galbraith, now 80, graduated from OAC with a bachelor's degree in economics and was the first recipient of a Guelph honorary degree. O



CAMPUS BEAUTIFUL

Thanks to the skill and dedication of U of G gardeners and groundskeepers, the University enjoys the reputation of having one of the most beautiful campuses in the province. Members of the Grounds Department celebrate receiving the designation

"horticulturalist-landscaper/groundskeeper" from the Ontario Ministry of Skills Development for achieving 4,500 hours of service. From left to right are Kenda Semple, Bill Webb, John Reinhart and Dennis Lamont.

Photo by David Thomas, PRI

Grounds puts people and environment first

The Grounds Department sprays for weeds and pests only when it has to, and it uses the safest products possible.

"We're very conscious of the environment, and of the fact that there are more than 10,000 people on campus," says department head Michael Bladon. Grounds prefers to use spot spraying rather than blanket applications, and to use biological controls wherever possible.

Whenever a call comes about a particular problem, Grounds personnel will make an assessment of what control measurements, if any, are necessary, says pest control operator Gord Grant. The overriding concern is to reduce the risk for people on campus.

That is why spraying is done early in the morning before many people arrive on campus, says Bladon, who advises people to use



common sense when they see signs warning of spray applications, or personnel doing the spraying. Passersby are asked to use a different route to minimize their exposure.

Grounds personnel who work with pesticides, herbicides and insecticides are tested at least twice a year by Medical Services to monitor exposure, he adds. O

Flushing — to the sound of conservation

Efforts to conserve water on campus can be made in small ways, in places you'd least expect.

About two-thirds of the urinals in men's washrooms on campus flush automatically. They are equipped with a tank behind the wall that releases about 12 litres of water on a timed interval. Most are set to work every 15 minutes, but during times of heavy usage, that isn't often enough, and during periods of low usage, water is used unnecessarily.

In four washrooms on campus, the Maintenance Department has installed a device that "listens" for the sound of the washroom door opening and closing. It then sends about two litres of water for a five-second flush. So during periods of low usage, no water is consumed at all.

There are plans to eventually install the system in about two dozen more men's washrooms, says Lloyd Cummins, Maintenance. O

Just giving you the facts . . .

Welcome to the University of Guelph! During your visit to our open house weekend, you will probably have some questions about our University. We hope the following interesting facts will help enrich your visit.

Economic impact on the city of Guelph

The University's economic impact on the city is about \$170 million annually.

Taxes

Ontario makes a grant to the University of \$75 for each student (\$825,375 this year), which is turned over to the City of Guelph in lieu of taxes.

University of Guelph budget

The University's estimated annual income of \$217 million includes \$33 million from the Ontario Ministry of Agriculture and Food, \$22 million in fees from ancillary services such as Residences and Food Services, \$39 million in expendable trust funds and research contracts other than OMAF, and close to \$123 million in operating revenue (\$91 million in Ministry of Colleges and Universities grants, \$20 million in tuition fees and \$12 million in other income).

Utilities

- The University has an annual \$6.1-million budget for water, sewage, hydro and heating.

Students

- 10,500 full-time undergraduates are enrolled in the following programs:

Arts	3,550
Science	2,750
Family and consumer studies	1,100
Agriculture	815
Veterinary medicine	420
Hotel and food administration	450
Human kinetics	360
Associate diploma in agriculture	350
General studies	250
Engineering	200
Landscape architecture	125
Unclassified	100
- 1,600 part-time undergraduates
- 16,000 enrolled in non-credit continuing education courses annually
- 1,400 graduate students
- more than 500 students in co-op programs

Campus

- The main campus of 850 acres (340 hectares) includes 50 major buildings and a 344-acre (137-hectare) arboretum.

Employees

- 2,600 full-time faculty and staff (720 faculty)
- 1,700 part-time and temporary faculty and staff
- 2,400 students in part-time and temporary positions

Annual visitors

- 10,000 on organized tours
- 18,000 at conferences
- 15,000 at The Arboretum
- 30,000 for College Royal (annual open house)
- 6,000 for convocation
- 3,500 for alumni events
- 10,000 animals treated at the Ontario Veterinary College and another 22,000 animals at ambulatory clinics and in the herd health program

Administrative officers and deans

- Brian Segal
President
- Jack MacDonald
Vice-President, Academic
- Charles Ferguson
Vice-President, Administration
- Leonard Conolly
Associate Vice-President, Academic
- Brian Sullivan
Associate Vice-President, Student Affairs
- Bruce Ryan
Acting Dean, College of Family and Consumer Studies
- Norman Gibbins
Acting Dean, College of Biological Science
- J.L. Campbell
Dean, College of Physical Science
- Freeman McEwen
Dean, Ontario Agricultural College
- Ole Nielsen
Dean, Ontario Veterinary College
- David Murray
Dean, College of Arts
- John Vanderkamp
Dean, College of Social Science
- Larry Milligan
Dean of Research
- Doug Ormrod
Dean of Graduate Studies

Academic structure

- Seven colleges - Arts, Biological Science, Physical Science, Social Science, Family and Consumer Studies, Ontario Agricultural College, Ontario Veterinary College
- University School of Rural Planning and Development
- University School of Continuing Education

Student Services

- co-ordinates programs and services to aid students' physical and mental development
- runs workshops and seminars on learning skills, career choices and personal development

Athletics

- More than 5,000 students are involved in 510 intramural athletics teams; 500 are involved in 30 intercollegiate programs
- Instructional recreation such as keep-fit classes and swimming attract 1,900 students, staff and faculty. Members of the public are invited to attend intersarsity games that include football, basketball and hockey

Research

- funding of more than \$47 million (\$23 million from OMAF) places Guelph among the four most research-intensive institutions in Canada
- eight research stations operated by the University for OMAF total well over 3,000 acres (1,178 hectares)
- 40-acre (16-hectare) research park provides companies with access to Guelph faculty, students and resources for research and development activities

Residences

- 4,000 undergraduates live in residence on campus
- 140 townhouses close to campus are rented to married students

Alumni

- The University's 50,000 graduates live across Canada and the United States and around the world.
- School of Engineering
- School of Hotel and Food Administration
- School of Human Biology

- School of Landscape Architecture
- Faculty of Graduate Studies
- Office for Educational Practice
- Office of Research
- Centre for Information Technology Research
- Centre for Genetic Improvement of Livestock
- Gerontology Research Centre
- Equine Research Centre
- Centre for International Programs
- The University of Guelph Library
- Inter-University Programs
- Guelph-Waterloo Biotech (Plant and Animal Biotechnology Centres are located at Guelph)
- Guelph-McMaster Doctoral Program in Philosophy
- Guelph-Waterloo Centre for Graduate Work in Chemistry
- Guelph-Waterloo Program for Graduate Work in Physics
- Guelph Turfgrass Institute
- Veterinary Teaching Hospital
- Marriage and Family Therapy Centre
- Canadian Centre for Toxicology
- Soil and Water Conservation Centre
- Landscape Research Group at Guelph

Scholarships

- close to 750 annual scholarships and awards for undergraduates are valued at approximately \$700,000
- more than 400 annual graduate student awards are valued at \$1.2 million

Library

- more than 2.5 million books and other publications, increasing at the rate of 120,000 a year
- more than 8,000 people go through the turnstiles every day
- Information technology
- an integrated computer and communications network provides access to faculty, staff and students
- Guelph's library has been a world leader in automation for more than a decade
- Centre for International Programs
- stimulates and supports University involvement in international development activities and provides courses, seminars, conferences and other activities related to development issues on campus and in the community

Research

Chickens get cold feet in egg production study

Birds are hard hit by hot weather. The same feathers that keep them well-insulated in the cold make them hot during temperature extremes. This leaves poultry farmers in a quandary, because uncomfortable flocks are poor producers.

But two U of G professors have found a way to keep these birds cool: start with their feet!

A basic fact about birds is that they don't sweat like humans. Instead, during hot spells, they release body heat mostly by panting. But research at Cornell University showed that they can release considerable heat through the skin of their feet.

Armed with this knowledge, Prof. Doug Morrison, Department of Animal and Poultry Science, and Prof. Lambert Otten, School of Engineering, set out to create "cool roosts" for a flock of chickens at the Arckell Poultry Research Station.

Their roost consisted of a continuous one-

inch PCV pipe inserted through the width of 32 chickens' cages, just high enough to let the eggs roll under. Water refrigerated to 12 C was circulated through the pipe.

The air temperature in the room where the tests took place was raised to 35 C, typical of a hot summer day. And sure enough, the egg quality, production and weight from the cool roost chickens were better than from a control group that was not privy to the experimental apparatus.

"For those farmers with breeder birds producing eggs for hatching, the difference could be critical," says Morrison. He believes it's only necessary to take the "edge" off the heat — allowing a five- to 10-per-cent body heat release through the chickens' feet — to keep them comfortable.

This research was supported by the Ontario Ministry of Agriculture and Food. O

Sweet potato chips for savory tastes

Barbecue chips, salt and vinegar chips, ketchup-flavored chips . . . and now, sweet potato chips!

Researchers in the departments of Horticultural Science and Food Science are completing the first part of a three-year study into the potential for increasing the use of Ontario-grown sweet potatoes.

Two of their main interests are processing for the snack food trade and storeability for the fresh market, says technician Janet Vlieghehart. She's optimistic about the study's preliminary results.

"We've identified two varieties that have good potential for making chips," she says. "They show promise for farmers looking for alternative crops."

What the researchers need is the least sweet sweet potato they can find. A high sugar content, they say, can result in dark chips. So they're pleased that the most promising

varieties they've selected for testing are both low in sugar and capable of rendering sweet-tasting chips, which they think will appeal to customers — "as long as no one bites into one expecting the taste of a traditional potato chip," says Vlieghehart.

Sweet potato chips have something else going for them — purity. Because they retain all the taste of a sweet potato, Vlieghehart expects they'll need no flavor enhancement in commercial applications — a natural touch that the additive-conscious public may embrace.

And besides, the snack trade is always eager for new products. "It's not a market where people are stuck in their ways," she says. "They're willing to try something different."

Ontario represents a potentially lucrative market for sweet potato growers and processors. Consumers here devour about 15 million pounds of sweet potatoes a year, but the absence of a continuous domestic supply means that virtually all sweet potatoes are imported from the United States. Ontario producers grow just 100 acres of sweet potatoes, meeting a scant .01 per cent of the demand.

Researchers think production could increase markedly if they could develop varieties suitable for former tobacco acreage, devise proper storage methods and get the processing industry interested in making chips or even french fries out of them.

Sweet potato chips are big business in the southern United States, marketed under the trade name "Yammers" — even though yams and sweet potatoes are distinctly different vegetables. Unlike yams or conventional potatoes, sweet potatoes are a root, not a tuber, and belong to a different family (*Convolvulaceae*) than yams (*Dioscoreaceae*).

The U of G project is part of a larger sweet potato research effort sponsored by Agriculture Canada's alternative enterprise initiative program. Ontario Ministry of Agriculture and Food research stations in Delhi and Simcoe are also involved in production and quality evaluation. O

by Owen Roberts,
Office of Research

When pigs forget their manners . . .

Pigs don't like to be dirty. Under normal circumstances, they keep their pens clean and dry. But when something happens to upset their environment, they get excited and sometimes ignore their natural instinct for cleanliness.

U of G researchers, working in conjunction with the Ontario Ministry of Agriculture and Food, have come up with a solution for dirty pigs — solid-wall pigpens.

By nature, pigs prefer to eat, drink and sleep at one end of their pen and defecate only at the extreme other end. A recessed gutter can confine their excrement and further distance it from them. Because pigs today are usually raised indoors under controlled, comfortable conditions, they no longer get dirty wallowing in the barnyard mud to keep cool.

But pigs are very social . . . and excitable. Sometimes having a dozen or so penmates isn't companionship enough, so they poke their noses through the spaces between the bars

separating them from the pen next door to meet their neighbors.

When they make that acquaintance, they may get excited. And when they get excited, they forget their bathroom manners and "go" wherever they're standing, even in their sleeping or eating area.

Dirty pigs are mostly an esthetic problem, says Prof. Doug Morrison, Department of Animal and Poultry Science. Nonetheless, farmers want their charges to maintain a respectable appearance.

A solution that Morrison and his colleagues Prof. Roger Hacker, Animal and Poultry Science, Prof. John Ogilvie, School of Engineering, and OMAF engineer Frank Kains have hit on is solid-wall pigpens. After two years of study involving 1,100 pigs, the team has determined that these pens effectively eliminate pigs' meet-the-neighbor practice, leading to appreciably cleaner pen floors and

pigs.

Morrison's group enclosed some of the spindle pens at the Arckell Research Station and measured the cleanliness against pens that hadn't been altered. "The difference was overwhelming," says Morrison. "Pigs in the solid-wall pens were markedly cleaner."

The solid-wall pens may also reduce drafts, which pigs dislike intensely in cold weather. In fact, in the presence of a draft, they would forsake even a clean, dry sleeping area for a less sanitary one, Morrison says this may also have influenced the results of the research.

Farmers who have tried this approach report a decrease in the activity level inside the barn. "The pigs are calmer, which indicates contentment to me," says Morrison. "I'd say any farmer having problems with dirty pigs should give solid walls a try." O

Meat tops Canada's menu

by Mary Dickieson

What's for dinner? In most Canadian households, the dinner menu begins with meat. But what kind of meat? What factors influence your decision to serve pork chops instead of hamburgers or fish filets instead of roast turkey?

The initial results of a major U of G study on Canadian meat consumption reveal that your marital status, your sex, where you live, the type of work you do and the amount of exercise you get will all influence the kind of meat you buy.

Culture and tradition often dictate the menu for special occasions, says Prof. Trevor Watts, Consumer Studies. Remember how good your Christmas turkey was? Many people also reserve roast chicken, roast beef and many ethnic dishes for weekend or company meals. The choice of meat for everyday meals, however, is influenced more by lifestyle than by cultural background, he says.

Watts heads a team of researchers that includes other specialists in consumer behavior and marketing, as well as animal scientists. Their objective is to provide the kind of information that the Canadian meat, fish and poultry industries need to develop directions for research, product development, marketing and consumer communication.

Over the next three years, the researchers will survey more than 2,400 Canadian households. The study will not only identify consumption patterns, but will measure the social, cultural, attitudinal and lifestyle factors that influence consumer choices.

Already 17 focus groups have been completed in Vancouver, Lethbridge, Winnipeg, Toronto, Peterborough, Montreal, Quebec and Halifax. The responses indicate that most Canadians still consider meat to be the centre of a meal, although they disagree on what meat is.

To some prairie farmers and many blue-collar

workers, meat is beef, says Watts. Most people in the focus groups also listed pork, lamb, veal, chicken and turkey, but many of them were unsure which are "red" meats and which are "white" meats.

Fish appeared on the list more frequently in coastal regions; specialty meats and fish were more common in Quebec, where people seem to take more interest in food preparation, he says. Some people defined meat as any protein derived from a living animal, including eggs and wild game.

The information obtained from the focus groups is far from definitive, says Watts, but it provides the research team with a better understanding of the terminology consumers are familiar with (red meat vs white meat) and has identified some of the concerns people have about meat and poultry production. It has helped to formulate a questionnaire that will be used in all regions of Canada and throughout the four seasons. Participants in the study will be asked to keep a consumption diary and a purchase diary for one week for each person in the household.

Because about one-third of the total food dollar is spent eating out, says Watts, it's important to assess the choices people make when they eat away from home and to determine whether they choose foods like hamburgers and chicken nuggets because of taste preference or convenience.

Among the participants in the focus groups, convenience ranked as a major factor in the preparation of everyday at-home meals, says Watts. Many people said they buy cuts like hamburger patties, breaded chicken breasts or smoked sausages because they are easy and quick to prepare. Others suggested fish and chicken are appearing on the family table more often partly because these meats are easy to cook in a microwave oven.

Most of the people interviewed in the focus groups bought their meat in supermarkets, al-

though many said they thought the meat sold in specialty shops would be fresher and of higher quality. Canned and processed meats were considered to be of lower quality, although people said they purchased them anyway because of convenience.

The completed study will rank the importance of factors like convenience, family preference, perceived nutritional value and price. It will also show seasonal and geographical variations in consumption patterns, as well as distinguish between the eating habits of families, couples and single people.

Remarks from the focus groups suggest that men may be less conscious of nutrition than women, but are more likely to change their eating patterns when they marry or have children. Most couples said they changed from a random meal pattern to a more structured schedule when they had children.

All these factors have implications for the meat-producing industries in Canada, which naturally want to provide the quality and the kind of products that consumers want, says Watts. The study will also provide them with information about how consumers perceive their products in terms of nutrition, price, convenience and taste.

It may also help to pinpoint misconceptions that can be corrected through consumer information and education, he says.

For example, a surprising number of people in the focus groups said they believed that supermarkets regularly add red dye to beef cuts to make them look more appetizing. Watts points out that this practice is illegal in Canada. But the fact that some consumers are unaware of the law points to a need for better communication, he says.

The study has funding support from the University, a number of industry groups and government. The in-home surveys will begin this month. O

CSSAA annual dinner

The College of Social Science Alumni Association is holding its third annual dinner March 16 at 6 p.m. at The Arboretum Centre.

Guest speakers will be President Brian Segal and Joc Makin, a 1974 graduate of the college who works with the North Asia relations division of the Department of External Affairs.

Makin, a political studies graduate, will discuss achievements and challenges in the Pacific Rim, an area where he has travelled widely as a foreign service officer.

Proceeds from the evening will go to the endowment for the College of Social Science student scholarship. Tickets are \$25 each and should be ordered by March 8 from the Department of Alumni Affairs and Development, Ext. 6657. O

and - CSA in co-operation with
The Daily Mercury present
A Lecture by
RAMSEY CLARK
Lawyer for the P.L.O.



**Palestinian Rights -
Global Obligations**
Thursday, March 16, 1989
War Memorial Hall 8 p.m.

Advance: \$5.00 \$5.50 \$7 Gen. + .50 handling
Door: \$6.00 \$7.50 \$8 Gen.
Tickets are available at the University Centre Box Office, Bookshelf
Cafe, Sam the Record Man & the Corner in Stone Road Mall.
VISA & MASTERCARD 824-4100 ext. 3940

Coming events

WEDNESDAY, March 8

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Feminist and Christian, 10:10 a.m., UC 533; Ecumenical Holy Communion, 12:10 p.m., UC 533; Immanuel Christian Fellowship, 5 to 7 p.m., 287 Water St.; Community Fellowship, 5 to 7 p.m., Chaplain's Lounge, UC Level 3; Gospel Singing Group, 7 p.m., UC 444. Computing Seminar - "How to Learn the 'C' Programming Language," 12:05 p.m., Computing Services 204. OVC Seminar - "Pythiosis: A Skin Disease of Horses in Tropical and Subtropical Countries," Leonel Mendoza, 12:10 p.m., Clinical Studies 1438. Social Science Lectures - "Telephony and Geography," Ron Abler, 4 p.m., MacKinnon 116; "Current Changes in Soviet Society," Liparit Kiuzadjan, 8 p.m., MacNaughton 113. University Achievers - Restaurateur Phillip Chan, 5 p.m., UC 103. Continuing Education - "Art for Amateurs and Connoisseurs," 7:30 p.m., six weeks, register at Ext. 3956/7. CUSO - Information Meeting, 7:30 p.m., UC 442. Our Common Future - "Sustainable Development: Implications for Guelph," Graham Knowles, Susan Turner, Dan Hoomweg and Carole Milligan, 7:30 p.m., Arboretum Centre.

THURSDAY, March 9

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Relationships: The Central Concern of Jesus, 4 p.m., UC 335; Exploration in Meditative Prayer, 5:10 p.m., UC 533; Social Evening, 6 to 9 p.m., UC 334/335; Lent and Holy Week Video Series - "The Milagro Beanfield War," 6:30 p.m., UC 533. Lecture - "Glances Askance - Canadian Ironies," Linda Hutcheon, 11 a.m., MacKinnon 233. Pathology Seminar - "The Vertical Transmission of *Renibacterium salmoninarum* in Hatchery-Reared Chinook Salmon," R.D. Armstrong, 11:10 a.m., Pathology 220. Drama Lecture - "Stage Design in China," Hu Miao-Sheng, 11:10 a.m., MacKinnon 316. Concert - Sylvia Perolux, classical guitar, 12:10 and 1:10 p.m., MacKinnon 107, free. Art Lecture - "Arnaud Maggs Numberworks," Arnaud Maggs, 3 p.m., Macdonald Stewart Art Centre. Social Science Lecture - "Integration in Personality," Edward Deci, 4 p.m., UC 442. Guelph Field Naturalists - "Ontario's Insects," Gord Surgeoner, 7:45 p.m., Arboretum Centre.

FRIDAY, March 10

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 8:10 a.m., UC 533. Biomedical Sciences Seminar - "Luteal Activity in the Cow in Health and Disease," Ghulam Vighio, noon, OVC main building 1642. College Royal - Open House, 5:30 to 10 p.m. Drama - *Terminal Bar*, 8 p.m., Massey Hall theatre, \$2.

SATURDAY, March 11

Continuing Education - "Vegetable Gardens," 9 a.m. to noon, register at Ext. 3956/7. College Royal - Open House, 9 a.m. to 5 p.m. The Arboretum - Maple Syrup Days, 9:30 a.m. to 3:30 p.m., Arboretum Nature Centre. Dinner Theatre - *Theatre in the Trees, I Ought to Be in Pictures*, 6:30 p.m., Arboretum Centre, \$29.50. Drama - *Alias*, 8 p.m., Massey Hall theatre, \$2.

SUNDAY, March 12

Worship - Morning Worship Service, University Bible Studies, 9 a.m., UC 441; Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry, 8

p.m., UC 533. The Arboretum - Maple Syrup Days, 9:30 a.m. to 3:30 p.m., Arboretum Nature Centre. College Royal - Open House, 11 a.m. to 5 p.m. Drama - *Krapp's Last Tape*, 8 p.m., Massey Hall theatre, \$2.

MONDAY, March 13

Worship - Devotions, 8:45 a.m. Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 5:10 p.m., UC 533.

TUESDAY, March 14

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Liturgy of the Word, 12:10 p.m., UC 533. Science Noon - "Forensic Science - Closing in on Crime," Harold Pecl, noon, Peter Clark Hall. Gerontology Seminar - "The Elderly: Housing and Service Preference," Alun Joseph and Grant Hollett, 12:10 p.m., UC 334. Our World - "AIDS Education: A Challenge for Communicators," 12:10 p.m., UC 441. Lecture/Discussion - "Sexual Abuse of Children," Diane Mattiussi, 7 p.m., UC 103. Engineering Seminar - "Energy and the Environment," Alvin Weinberg, 7:30 p.m., MacNaughton 113.

WEDNESDAY, March 15

Worship - Devotions, 8:45 a.m., Campus Ministry Lounge, UC Level 3; Feminist and Christian, 10:10 a.m., UC 533; Ecumenical Holy Communion, 12:10 p.m., UC 533; Immanuel Christian Fellowship, 5 to 7 p.m., 287 Water St.; Community Fellowship, 5 to 7 p.m., Chaplain's Lounge, UC Level 3. Writing Workshop - "Report Writing," noon, UC 441. Computing Seminar - "Networking Personal Computers," 12:05 p.m., Computing Services 204. OVC Seminar - "The Science of Farm Animal Welfare," John Webster, 12:10 p.m., Clinical Studies 1438. Biochemistry Seminar - "Actions of Mucus Glycoprotein that Covers Epithelial Surfaces," Janet Forstner, 12:10 p.m., MacNaughton 222. Social Science Lectures - "Changes in Post-War Macroeconomics," Stephen Nickell, 4 p.m., MacKinnon 029; "Soviet Perspectives on China," Liparit Kiuzadjan, 8 p.m., MacNaughton 113. Concert - Liona Boyd, 8 p.m., War Memorial Hall, \$14.50 to \$17.

Books

Understanding war

Prof. John McMurtry, Philosophy, has published a new book, *Understanding War*, which is now available at the Co-op Bookstore and the Bookshelf.

Published by Science for Peace and Samuel Stevens and Co. at the University of Toronto Press, McMurtry's book is a critique of the militarization of human culture. His study penetrates beneath the literature on weapon systems developments, U.S.-Soviet strategies of deterrence and attack, the international arms trade and the ethics of nuclear threat to a deep-structural analysis of the military paradigm of war, and the way beyond systematic killing of humans as a method of social defence.

The book was launched at a recent reception held at Trinity College, University of Toronto, and attended by such notables as George Ignatieff, former Canadian ambassador to the United Nations; eminent conflict-theorist Anatol Ratoport, who wrote the introduction to the book; and historian Kenneth McNaught.

Understanding War has been described by G.A. Cohen, Chichele professor of social and political theory and fellow at All Souls, Oxford University, as "a brilliant ground-breaking investigation of the deep structure of war making and the war-making mentality so central to our culture." O

Focus



Photo by David Thomas, PKI

Hazardous materials officer safety

Hazardous materials should be treated with respect. That's what makes Jennifer Reader's job so important.

As the new hazardous materials safety officer in the Department of Environmental Health and Safety, Reader helps people on campus make sure they handle chemicals safely and properly. She also oversees the safe storage and disposal of hazardous waste materials.

With heightened public concern and new legislation that requires a system called the Workplace Hazardous Materials Information System (WHMIS), she's keeping busy. But in a way, that makes her job easier, she says. Under WHMIS, users of hazardous chemicals must keep detailed inventories of the materials. "It's a good thing, because then people know what they're dealing with."

Changing attitudes help as well. "Most people are pretty good about these things," she says. "They know not to throw (the chemicals) down the drain."

Instead, chemicals that are no longer needed are taken to a special holding facility on campus, before being shipped to registered disposal facilities. Many chemicals can be shipped in large drums, but those that are potentially more dangerous have to be shipped in "lab-

packs." In labpacks, the containers with the individual chemicals are packed in a large drum filled with an inert substance called vermiculite for shipping.

For Reader, who describes herself as "a diehard environmentalist," it's impossible to be too careful. "I've always had the philosophy that you should treat every chemical as a potential hazard. It might not hurt you right now, but you don't know what it will do in 20 years."

Reader has an extensive background in safety. She earned a B.Sc. in chemistry and specialized in environmental chemistry when she did her master of science in public health at the University of North Carolina. She then worked with that university's occupational health study group, studying occupational health problems in tire plants.

After coming to Guelph, she worked in the Department of Chemistry and Biochemistry as a technician in the undergraduate lab program. She started her job as hazardous materials safety officer at the beginning of the year.

Safety should be an integral part of everyone's work, she says. In research, for example, "there's always a risk, but you minimize it. You inform yourself about safety." O



Graduate student Bruce Webster, left, and Prof. Frank Hurnik, right, both Department of Animal and Poultry Science, present a copy of the Japanese translation of their publication,

Dictionary of Farm Animal Behavior to chief librarian John Black.

Photo by John Majorosky, Photographic Services

Briefly

Our common future

The sustainable development seminar series concludes tonight at 7:30 p.m. at The Arboretum Centre with a discussion of "Implications for Guelph." Guest speakers are Graham Knowles, president of Hart Chemicals Ltd., Guelph; teacher Susan Turner; Dan Hoomweg, waste management co-ordinator for the City of Guelph; and community activist Carole Milligan.

English professor to speak

Linda Hutcheon, a professor of English at the University of Toronto, will give an illustrated lecture entitled "Glances Askance — Canadian Ironies," March 9 at 11 a.m. in Room 233, MacKinnon building.

Student art sale

The Fine Art Department will hold a print exhibition and sale March 16 and 17 from 9:30 a.m. to 5 p.m. in Zavitz Hall. Produced by students in the winter semester, the prints will include original lithography, intaglio, woodcuts and serigraphs. Most will cost between \$10 and \$15. The proceeds from the sale will be used to finance the print study collection in Zavitz and the printmaking prizes given by the department.

Noon-hour concert

The Department of Music's Thursday noon-hour concert March 9 features classical guitarist Sylvie Perolux. Winner of the 1983 provincial guitar competition, Perolux has performed at the National Arts Centre, for guitar societies across Ontario, on CBC and Radio-Canada and in England. Program I at 12:10 p.m. in Room 107, MacKinnon building, will consist of "Fantasie Hongroise" by Johann Kaspar Mertz; "Prelude and Allegro" (from "Prelude, Fugue and Allegro BWV 998") by Bach; "Finale" by Jacques Hétu and "The Prince's Toy Suite" by Nikita Koshkin. Program II at 1:10 p.m. will feature "Sonata Classica" by Manuel Ponce; "Voces De Profundis" (Homage to Alfred Hitchcock) by Stepan Rak; "Berceuse" by Leo Brouwer; "Cancion" by Eduardo Falu and "Two South American Dances" (Folklore). Admission is free.

Science Noon

The 25th anniversary Science Noon series continues March 14 with Dr. Harold Peel, chief scientific adviser in the RCMP's central forensic laboratory services, discussing "Forensic Science — Closing in on Crime." It begins at noon in Peter Clark Hall.

Focus on sexual abuse

The Women's Resource Centre is sponsoring a lecture and discussion on "Sexual Abuse of Children" March 14 from 7 to 10 p.m. in Room 103, University Centre. Guest speaker is Diane Mattiussi, a Burlington counsellor who works with female victims of incest and abuse.

GAC annual meeting

The Guelph Arts Council will hold its 14th annual meeting April 5 at 7:30 p.m. at the Holiday Inn. Guest speaker is Nalini Stewart, chair of the Ontario Arts Council. For more information, call the arts council at 836-3280.

U of G choir performs

The University of Guelph Choir, under the direction of Noel Edison, will perform March 19 at 3:30 p.m. in St. George's Anglican Church. Tickets are \$6 general, \$5 for students and seniors, and can be purchased from any choir member. For more information, call the Department of Music at Ext. 3127.

Sculpture on show

Sculpture by Sophia Hungerford will be on display at the Macdonald Stewart Art Centre from March 11 to May 28. Hungerford will attend an opening reception March 12 from 2 to 4 p.m. "Viewpoints," a juried art exhibition, continues at the art centre until April 9. "Arnaud Maggs Numberworks" continues until April 2. Maggs will speak about his exhibition March 9 at 3 p.m. The art centre is open Tuesday through Sunday from noon to 5 p.m.

Stage design in China

The Department of Drama will present a slide lecture by Prof. Hu Miao-Sheng of the Shanghai Theatre Institute, People's Republic of China, March 9 at 11:10 a.m. in Room 316, MacKinnon building. In addition to his work as a designer, Hu is the author of a number of books and articles on scenography and the semiotics of theatre. He is currently a visiting professor in the drama program of University College, University of Toronto.

Surplus sales

The Surplus Sales Department in Blackwood Hall has the following items available for sale on a closed-bid basis: National Triplex riding mower, s/n 84-18-1489 (reserved bid \$700); and a Stihl hand blower, BG60, s/n 2-12838670 (reserved bid \$175) SD#730. For more information and viewing, call Ext. 8139. Bids close March 28 at 4 p.m.

Housing and the elderly

Guest speakers in the Gerontology Research Centre's seminar series March 14 are Prof. Alun Joseph, Geography, and Prof. Grant Hollett, Geography and the University School of Rural Planning and Development. They will discuss "The Elderly: Housing and Service Preference." At 12:10 p.m. in Room 334, University Centre.

Theatre in the Trees

The Arboretum's dinner theatre, Theatre in the Trees, is offering the Neil Simon comedy *I Ought to Be in Pictures*, directed by John Snowdon. Scheduled performances are March 11 and 18, April 1, 15, 22 and 29, and May 6. Dinner is at 6:30 p.m.; the play begins at 8 p.m. Cost is \$29.50. Tickets are available at the University Centre box office, Ext. 3940.

Field naturalists meet

The next meeting of Guelph Field Naturalists is March 9 at 7:45 p.m. at The Arboretum Centre. Prof. Gord Surgeoner, Environmental Biology, will give an illustrated talk on Ontario's insects. Everyone is welcome.

What's on at The Arboretum

Maple Syrup Days at The Arboretum run March 11, 12, 18, 19, 25 and 26, and April 1, 2, 8 and 9. Hours are 9:30 a.m. to 3:30 p.m.

Ramsey Clark to speak

Ramsey Clark, lawyer to the Palestinian Liberation Organization and former U.S. attorney-general in Lyndon Johnson's administration, will discuss "Palestinian Rights — Global Obligations" March 16 at 8 p.m. in War Memorial Hall. The lecture is sponsored by the University Centre, the Central Student Association and the Guelph *Daily Mercury*. Tickets are \$7.50 general and \$5.50 for students and seniors in advance, \$8 and \$6 at the door. They are available from the University Centre box office, Sam the Record Man, the Bookshelf Cafe and The Corner in the Stone Road Mall.

Computing seminars

Today's topic in Computing Services' lunch-time discussion series is "How to Learn the 'C' Programming Language." It begins at 12:05 p.m. in Room 204, Computing Services. Next Wednesday, discussion will focus on "Networking Personal Computers."

OVC seminars

The OVC seminar series continues March 8 with graduate student Dr. Leonel Mendoza discussing "Pythiosis: A Skin Disease of Horses in Tropical and Subtropical Countries" and March 15 with Dr. John Webster of the department of animal husbandry, Langford House, Langford, Bristol, on "The Science of Farm Animal Welfare." The seminars begin at 12:10 p.m. in Room 1438, Clinical Studies building.

Inuit drawings on the road

Following a showing at the National Gallery of Canada in Ottawa, the Macdonald Stewart Art Centre's touring exhibition, "Contemporary Inuit Drawings," will be shown at the Gilcrease Museum in Tulsa, Oklahoma, June 2 to July 30

and at the Muscarelle Museum of Art in Williamsburg, Virginia, Aug. 26 to Oct. 20. The exhibition consists of 80 drawings and three historic utensils and is accompanied by a catalogue compiled by Marion Jackson and Judith Nasby, director of the art centre.

Teaching technology

The Sixth Canadian Symposium on Instructional Technology will be held in Halifax May 3 to 5, on the theme "Computer-Assisted Learning: Theory and Reality." For more information, contact Laurier Forget, Symposium Executive Secretary, National Research Council of Canada, Ottawa K1A 0R6. Telephone: 613-993-9009. Fax: 613-952-7928.

Rotary scholarships offered

The Rotary Club of Guelph invites applications for Rotary Foundation Scholarships for the 1990/91 academic year. The purpose of the scholarships is to further international understanding and friendly relations among people in different countries. Applicants must be prepared to spend a year of study or training in a foreign country where a Rotary Club is located. Scholarships are awarded in five areas: graduate study; undergraduate study; vocational study or training; teachers of the handicapped; and journalism. Deadline for applications is April 1. For more information and application forms, call Marie McGlone, Office of Graduate Studies, Ext. 6738.

Courses

Treat yourself to the arts

This winter, the "Meetings for the Mind" program will repeat a favorite series on "Art for Amateurs and Connoisseurs" with Judith Nasby, director of the Macdonald Stewart Art Centre. The series begins its seventh season March 8 with the first of eight Wednesday evening programs.

"Commentary and Reflections on the Current Royal Ontario Museum Show 'Truth and Beauty: the Age of Neoclassicism'" will be presented by Michael McCarthy, professor of fine art at the University of Toronto.

Other topics in this exploration of the fine and decorative arts include "From Gilded Cage to the Power Look: Clothing and Changing Concepts of Femininity," March 22 with Prof. Grant McCracken, Department of Consumer Studies; "The Art of the Silversmith," March 29 with Guelph artist Lois Etherington-Betteridge; and "Survival Through Design: Thinking Globally — Acting Locally," April 5 with Prof. Walter Kehm, director of the School of Landscape Architecture.

On April 12, Megan Bice, curator of the McMichael Canadian Collection, presents "Harris and Lake Superior." On April 19, Prof. Chandler Kirwin, Fine Art, co-moderator of the series, will present "Expo '67 Revisited: the Drenters and the Pioneer Family Sculpture by Rockwood Sculptor Andreas Drenters."

Good gardeners don't have green thumbs

Good gardeners don't really have green thumbs, they're just better informed.

Homeowners and amateur gardeners are investing increasing amounts of time and money in improving the appearance of their homes and developing a hobby interest in specific areas of horticulture. To help them, the University School of Continuing Education is offering a number of courses and programs, on campus and for home study.

Heralding the approach of spring, the Division of Continuing Education has planned Saturday morning sessions on campus to give gardeners a head start on this year's growing season.

On March 11, Don Kitchen will discuss "Vegetable Gardens." Participants will learn about seedling, transplanting, hardiness, nutrition, irrigation, pests and pest control. On April 1, George Pagowski will present "Rose Gardening," a course for both experienced and novice growers that will cover a range of topics from types and cultivars to selection, planning and aftercare.

For those who prefer to learn at their own

The Soviet perspective

Liparit Kiuzadjan, Winegard visiting professor in the Department of Sociology & Anthropology, will speak tonight on "Current Changes in Soviet Society" and March 15 on "Soviet Perspectives on China." Both lectures are at 8 p.m. in Room 113, MacNaughton building.

Phone books distributed

Each year, Communications Services receives about 6,000 copies of the local Bell Telephone directory for campus distribution. These directories have now been distributed to departments and student residences. If you need more copies for your department, call the HELP desk at Ext. 4357. Because of the glue in the binding, old directories cannot be recycled.

Media training workshop

A media training workshop designed for faculty and staff who may be called on to represent the University in the media will be held March 22. Workshop leader is Pat Adams, a Toronto communications consultant who developed the first media training course in Canada. During the session, she lectures, leads group discussions and comments on videotapes of the participants.

Register by calling Personnel at Ext. 3059/6598. For more information, call Andrea Mudry Fawcett, Public Relations and Information, Ext. 3839.

The series concludes April 22 with a Saturday afternoon tour and tea at the Rockwood Academy, a heritage property that is now a private residence.

"Meetings for the Mind" also offers opportunities to learn more about music.

"*Rudiments of Music*," a six-week evening course for beginners, starts Feb. 21 and will help participants find their way through a piece of music, follow the notes from A to G, learn about treble and bass clefs, understand the value of a rest and enhance their appreciation of music.

This course can be taken for pleasure, but also serves as a good beginning for students who wish to work towards rudiment examinations at the Royal Conservatory of Music.

Anyone who would like to catch a glimpse behind the scenes of a musical production shouldn't miss "From Page to Stage," to be offered May 6 during the Guelph Spring Festival. Participants will discover how the John F. Ross auditorium will be transformed into a rest home filled with murder and mayhem for the world premiere of the opera *Crazy to Kill* by Canadian playwright James Reaney and composer John Beckwith.

To register for any of these courses or to receive more information, call Ext. 3956. O

pace in familiar surroundings, the Division of Independent Study offers year-round home study courses and educational videos. Short courses for general interest include "Growing Roses," "Flower Arranging," "Floral Design" and "Pesticide: Safe Handling and Storage."

Courses such as "The Home Gardener," "The Qualified Plantman," "Fundamentals of Garden Design," "Indoor Landscaping" and "Landscaping with Bedding Plants" are available to participants accumulating credits towards the Ontario Diploma in Horticulture, as well as people in search of information for general interest.

Two independent study videotapes, "Home Landscape Design" and "Pruning Trees and Shrubs," can be used on their own or in support of any independent study gardening course. Course packages may include audiotapes, filmstrips and microfiche. Videotapes are purchased separately.

For more information about the on-campus gardening series, call Karen Maki, Ext. 3814. For a calendar on home study materials, call Penny Clelland, Ext. 3401. O

Personnel report

Appointments

Lucy Mutharia of the University of Nairobi, Kenya, will join the Department of Microbiology July 1 as assistant professor.

Robert Kay of Ryerson Polytechnical Institute will join Administrative Services March 20 as director of retail operations.

Job opportunities

As of *At Guelph* deadline March 3, 1989, the following opportunities were available:

Typesetter, Publication and Printing Services; temporary full-time for about two months. Normal hiring range: \$320.11 to \$346.79 per week.

Freelance Writers, Public Relations and Information; temporary part-time. Salary commensurate with qualifications and experience.

The following positions were available to on-campus employees only:

Secretary I, Population Medicine. Salary range: \$291.86 minimum; \$338.48 job rate (level 5); \$406.26 maximum.

Custodian 2, Housekeeping. Job rate: \$10.88 per hour; probation rate: \$2.00 per hour lower than job rate.

It is the University's policy to give prior consideration to on-campus applicants. To determine the availability of University employment opportunities, contact employment services and training, Level 5, University Centre, or telephone 836-4900.

Benefits report

Personnel's pensions and benefits section is sending out the annual personal report of benefits to all employees who are members of the University's pension plan.

The format is slightly changed this year; it is now on University letterhead, and should be more readable, says Elvin McNally, manager of pensions and benefits.

If you have any questions about your report, call Ext. 8776.

Positions elsewhere

The University of Victoria is seeking a vice-president, development and external relations. Applications and nominations should be sent to Dr. H.E. Petch, President and Vice-Chancellor, University of Victoria, Box 1700, Victoria, B.C. V8W 2Y2.

Personals

Fur Sale: Four panes of glass, 40" x 42"; white eavestroughs; pole lamp; ceiling light fixture; two small suitcases; black velvet jacket, size 40 small, 822-5106. Riding hat, size 7 1/4, Ext. 2965 or 821-5502. 1980 Buick Century wagon, automatic V6, AM/FM cassette, undercoated, one owner, certified, Ext. 3918 or 763-1764. Sperry 286 computer, 1.5-meg memory, 30-meg disk, 5.25-inch floppy, color monitor (CGA), Ext. 3927. 100 fluorescent lights, four feet, 34W low-light and 40W daylight; child's Judo suit; goalie trapper; Fisher-Price walkie talkies, new in box, Ext. 3044 or 822-0289.

Available: Typing by experienced secretary, pick-up and delivery, Jayne, 823-1018 after 5 p.m. Typing, Pat, Ext. 2965 or 821-5502. Experienced secretary to do typing using WordPerfect, Brenda, 822-8342.

Wanted: Two-room apartment close to University for fall semester for two quiet, non-smoking senior students, Chris, 822-

6255. Unfurnished garage apartment, condo or small house in or near Guelph for single, responsible, non-smoking male faculty member with cat, long term, references, no luxuries or appliances needed, reasonable rent, June 1 or July 1 occupancy, 823-2507. Boy's skates, Bauer 100/1000 Supremes, size 5, needed for summer 1989, 822-0289. Accommodation for student this summer in Markdale area, starting April 16, rate negotiable, references available, Dave, 821-1593.

For Rent: Four-bedroom house in University area, 1 1/2 baths, family room, solarium, large treed lot, single car garage, references required, available Sept. 1, 1989, to Aug. 31, 1990, \$1,000 a month plus utilities, 822-5023.

"Personals" is a free service offered by *At Guelph* for staff, faculty and students at the University. All items must be typed, double spaced, and submitted to *At Guelph* one week before publication.

In touch

Liaison officers from the Admissions Office travelled throughout Ontario last week, visiting 30 secondary schools. Visits were made in the northeast regions of Ottawa, Perth and Alexandria, as well as in the Belleville and Napanee areas. In addition, many schools were visited in central Ontario, including Aurora, Oakville, Brampton, Richmond Hill, Cambridge and Mississauga.

In the past few weeks, U of G student

ambassadors have joined liaison officers in school visits. These ambassadors have volunteered their time to return to their former high schools to talk with students about their experiences at U of G.

The Admissions Office is in the process of developing new admissions publications. To do this, photographs of the campus, athletics, residences and student life are needed. Anyone who has suitable photographs is asked to call Carla Steffler at Ext. 8713.



HABA BRUNCH

HABA student council held a pancake brunch recently and raised \$614 for Canine Vision Canada, an organization that provides guide dogs for the visually impaired. About 10 fourth-year HABA students helped stage the brunch, with food donated by Food Services, the Guelph junior chapter of the

Canadian Food Service Executive Organization, Carnation, Sunshine Produce, Quaker Oats of Canada and Nestle Enterprises Ltd. Chief organizer Bruce McAdams, left, serves customers Karen Cliffe, Gord Carey and Jo-anne Hebert.

Photo by David Thomas, PRI